10.10-06

Attorney Docket No.: 19459-003001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

plicant: Baxter et al.

Art Unit :

1631

Patent No.: 6,965,850

Examiner:

Marjorie A. Moran

Issue Date: November 15, 2005

Confirmation No.: 7561

Serial No.: 09/281,717

Filed

: March 30, 1999

Title

: METHODS FOR MODULATING NUCLEAR RECEPTOR COACTIVATOR

BINDING

Attention: Certificate of Correction Branch

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Certificate

of Correction

REQUEST FOR CERTIFICATE OF CORRECTION OF OFFICE MISTAKE UNDER 37 C.F.R. § 1.322

Applicants hereby request that a Certificate of Correction be issued for the aboveidentified patent in accordance with the following remarks and designation on attached form PTO/SB/44 and accompanying pages.

Applicants respectfully submit that Appendices 1, 2, and 3, found at pages 74-258 of the specification of application Serial No. 09/281,717, were omitted from the issued patent U.S. Patent No. 6,965,850. Appendix 1 is found at pages 74-149 inclusive. Appendix 2 is found at pages 150-222 inclusive. Appendix 3 is found at pages 223-258 inclusive.

Applicants attach hereto a copy of pages 74-258 of the application specification as filed, stamped with the Patent and Trademark Office's (PTO) own date-stamp and serial number.

Since the omission from the issued patent is a result of PTO error, Applicants believe that immediate correction of the patent is warranted.

CERTIFICATE	OF	MAILING	BY	EXPRESS MAIL	

Express Mail Label No. EV 744 620 320 US

Date of Deposit

OCT 16 2006

Applicant: Baxter et al.

Patent No.: 6,965,850

Issued: November 15, 2005

Serial No.: 09/281,717 Filed: March 30, 1999

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No fees are believed owing with this filing. However, should the Commissioner determine otherwise, the Commissioner is hereby authorized to charge Applicants' Deposit Account No. 06-1050 (Ref. 19459-003001) for any charges or credits.

Respectfully submitted,

Attorney Docket No.: 19459-003001

and 6 A. Ben

Date: October 5, 2006

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MOTA

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Appendix 1



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Atomic Coordinates for Human TR-B Complexed With T3, and a GRIP1 NR-box 2 Peptide

REMARK full length numbering 10 REMARK all residue names correct REMARK peptide sequence REMARK two molecules of TRB - CHAIN A and CHAIN B REMARK two molecules of T3 - CHAIN J and CHAIN K REMARK two molecules of GRIP-1 peptide - CHAIN X and CHAIN Y 15 REMARK chain X lies between A and B REMARK chain Y interacts with B only REMARK residues differing between A and B include: REMARK A 217 Glu, A 252 Gln, A 263 Lys (missing side chains) REMARK B 237 Ser, B239 His, B 394 Lys (missing side chains) REMARK additionally Gly 261, Gly 262 are not visible in chain A 20 REMARK residues differing between X and Y include: REMARK A 692 Arg REMARK additionally, residues Lys 688, Lys 689; Ser 697, Ser 698 REMARK are not visible in chain Y 7 25 LYS A 211 52.546 23.912 35.239 1.00 45.76 ATOM 1 N 36.586 1.00 43.42 6 2 LYS A 211 52.944 24.345 **MOTA** CA 1.00 35.68 6 C LYS A 211 52.035 23.665 37.836 **ATOM** 3 37.763 1.00 33.58 8 ATOM 4 O. LYS A 211 51.511 22.556 36.779 1.00 46.72 6 5 LYS A 211 52.610 25.825 ATOM CB 7 1.00 35.64 30 6 N PRO A 212 51.678 24.182 39.199 MOTA 6 7 PRO A 212 52.082 25.474 39.842 1.00 38.60 ATOM CD 6 8 23.379 40.166 1.00 38.35 ATOM CA PRO A 212 50.809 24.194 41.440 1.00 38.95 6 9 PRO A 212 50.670 ATOM CB 10 ĊG PRO A 212 51.455 25.469 41.255 1.00 42.00 6 ATOM 1.00 38.78 6 35 ATOM 11 С PRO A 212 49.433 23.097 39.594 48.920 23.949 38.802 1.00 34.64 8 12 PRO A 212 0 ATOM 7 **GLU A 213** 48.901 21.948 40.014 1.00 40.31 13 N ATOM 1.00 43.87 6 ATOM 14 CA **GLU A 213** 47.609 21.419 39.529 **GLU A 213** 47.943 20.307 38.520 1.00 45.16 6 15 CB MOTA 40 20.708 37.601 1.00 47.60 6 16 - CG **GLU A 213** 49.125 ATOM 6 19.828 36.353 1.00 50.68 ATOM 17 CD **GLU A 213** 49.284 18 OE1 GLU A 213 49.355 18.547 36.474 1.00 59.18 8 ATOM 20.368 35.180 1.00 49.06 8 19 OE2 GLU A 213 49.356 MOTA 6 1.00 45.96 20 **GLU A 213** 46.711 20.988 40.747 ATOM C 45 1.00 43.13 8 21 GLU A 213 47.111 21.136 41.910 ATOM 0 1.00 46.52 7 **ATOM** 22 PRO A 214 45.463 20.460 40.515 N 6 23 PRO A 214 44.985 20.184 39.148 1.00 46.44 MOTA CD 41.596 1.00 47.52 6 ATOM 24 CA PRO A 214 44.447 20.124 43.249 19.629 40.816 1.00 45.40 6 25 PRO A 214 MOTA CB 50 **ATOM** 26 CG PRO A 214 43.588 19.674 39.327 1.00 49.89 6 6 19.082 42.625 1.00 45.70 **ATOM** 27 С PRO A 214 44.787 PRO A 214 18.466 42.535 1.00 44.49 8 MOTA 28 0 45.816 7 MOTA 43.606 1.00 45.24 29 THR A 215 43.915 18.876 N MOTA 30 CA THR A 215 44.161 17.890 44.686 1.00 49.36 6 55 1.00 44.86 6 **ATOM** 31 CB THR A 215 44.163 18.586 46.093 46.728 1.00 52.26 8 MOTA 32 OG1 THR A 215 42.878 18.447 6 45.974 1.00 39.43 MOTA 33 CG2 THR A 215 44.514 20.031

16.995

44.667

42.934

THR A 215

	5	MOTA	35	0	THR			41.816	17.501	44.691		53.48	8
		ATOM	36	N	ASP			43.118	15.683	44.607		58.81	7
		ATOM	37	CA	ASP	Α	216	41.973	14.740	44.615		61.51	6
		ATOM	38	CB	ASP	Α	216	42.386	13.451	45.343		70.57	6
		ATOM	39	CG	ASP	A	216	42.399	12.283	44.475		78.07	6
	10	ATOM	40	OD1	ASP	A	216	41.532	12.161	43.586	1.00	82.31	8
		ATOM	41	OD2	ASP	Α	216	43.293	11.436	44.684	1.00	86.55	8
		ATOM	42	С	ASP	A	216	40.640	15.311	45.268	1.00	58.42	6
		ATOM	43	0	ASP	Α	216	39.598	14.840	44.924	1.00	56.85	8
		ATOM	44	N	GLU	Α	217	40.673	16.270	46.217	1.00	54.92	7
	15	ATOM	45	CA	GLU	Α	217	39.502	16.937	46.856	1.00	53.37	6
		ATOM	46	CB	GLU	A	217	39.943	17.459	48.216	1.00	51.02	6
		ATOM	47	С	GLU	Α	217	39.113	18.144	45.956	1.00	53.55	6
		ATOM	48	0	GLU	Α	217	37.905	18.394	45.695	1.00	54.33	8
		ATOM	49	N	GLU	A	218	40.162	18.895	45.511	1.00	49.20	7
	20	ATOM	50	CA	GLU	Α	218	39.933	20.073	44.661	1.00	45.94	6
		ATOM	51	CB	GLU	Α	218	41.232	20.855	44.304	1.00	43.43	6
		ATOM	52	CG	GLU	Α	218	41.907	21.579	45.479	1.00	40.86	6
		ATOM	53	CD	GLU	A	218	43.061	22.446	45.074	1.00	39.88	6
		ATOM	54	OE1	GLU	Α	218	43.895	22.019	44.232	1.00	37.61	8
4	25	ATOM	55	OE2	GLU	Α	218	43.183	23.583	45.599	1.00	34.01	8
IJ		ATOM	56	С	GLU	Α	218	39.249	19.647	43.390	1.00	44.71	6
IJ		ATOM	57	0	GLU	A	218	38.302	20.291	42.964	1.00	45.31	8
[al-		ATOM	58	N	TRP	Α	219	39.720	18.553	42.797	1.00	44.02	7
`*ej		ATOM	59	CA	TRP	Α	219	39.109	18.061	41.574	1.00	46.97	6
j el	30	ATOM	60	CB	TRP	Α	219	39.799	16.793	41.074	1.00	48.42	6
, Aj		ATOM	61	CG	TRP	А	219	40.879	17.029	40.141	1.00	54.61	6
έ! .10003		ATOM	62	CD2	TRP	Α	219	40.755	17.256	38.733	1.00	55.24	6
		ATOM	63	CE2	TRP	A	219	42.067	17.523	38.245	1.00	53.67	6
IJ		ATOM	64	CE3	TRP	Α	219	39.691	17.234	37.828	1.00	54.55	6
IJ	35	ATOM	65	CD1	TRP	Α	219	42.159	17.159	40.447	1.00	55.75	6
Ü		ATOM	66	NE1	TRP	Α	219	42.895	17.485	39.339	1.00	54.43	7
Ü		ATOM	67	CZ2	TRP	A	219	42.330	17.851	36.895	1.00	52.54	6
· <i>E</i>		ATOM	68	CZ3	TRP	A	219	39.943	17.535	36.509		55.17	6
		ATOM	69	CH2	TRP	A	219	41.239	17.820	36.029		55.59	6
	40	ATOM	70	С	TRP	A	219	37.646				47.32	6
		MOTA	71	0	TRP	Α	219	36.788	18.028	40.978		43.56	8
		ATOM	72	N	GLU	Α	220	37.376	17.142	42.965		49.91	7
		MOTA	73	CA	GLU			36.021	16.769	43.316		53.57	6
		ATOM	74	CB	GLU			36.052	16.055	44.649		58.18	6
	45	MOTA	75	CG	GLU	Α	220	35.149	14.930	44.672		73.13	6
		ATOM	76	CD	GLU	A	220	35.735	13.935	45.442	•	80.06	6
		ATOM	77		GLU			36.886	13.575	45.173		82.12	8
		ATOM	78	OE2	GLU			35.078	13.478	46.378		82.78	8
		ATOM	79	С	GLU			35.161	18.026	43.381		50.51	6
	50	MOTA	80	0	GLU			33.991	18.010	42.995		49.94	8
		ATOM	81	N	LEU			35.761	19.120	43.865		43.71	7
		ATOM	82	CA	LEU			35.047	20.398	43.951		42.81	6
		ATOM	83		LEU			35.935	21.510	44.510		39.21	6
		ATOM	84	CG	LEU			35.375	22.908	44.353		36.34	6
	55	ATOM	85		LEU			33.941	22.929	44.836		36.93	6
		MOTA	86		LEU			36.226	23.910	45.122		24.18	6
		MOTA	87	С	LEU			34.563	20.815	42.575		43.46	6
		ATOM	88	0	LEU	A	221	33.392	21.104	42.395	1.00	45.25	8

	5	MOTA	89	N	ILE	A	222	35.498	20.871	41.628		39.09	7
		ATOM	90	CA	ILE	Α	222	35.192	21.226	40.254	1.00	35.47	6
		MOTA	91	CB	ILE	A	222	36.379	20.997	39.343	1.00	33.74	6
		ATOM	92	CG2	ILE	Α	222	35.970	21.182	37.893	1.00	28.86	6
		ATOM	93	CG1	ILE	Α	222	37.532	21.922	39.707	1.00	33.33	6
	10	ATOM	94	CD1	ILE	A	222	38.804	21.586	39.004	1.00	34.85	6
		ATOM	95	С	ILE	Α	222	34.067	20.365	39.735	1.00	34.26	6
		ATOM	96	0	ILE	Α	222	33.033	20.873	39.319	1.00	31.90	8
		ATOM	97	N	LYS	Α	223	34.301	19.058	39.750	1.00	39.49	7
		ATOM	98	CA	LYS	Α	223	33.316	18.100	39.276	1.00	44.43	6
	15	ATOM	99	CB	LYS	A	223	33.603	16.713	39.852	1.00	50.81	6
		ATOM	100	CG	LYS	A	223	32.741	15.631	39.227	1.00	62.51	6
		ATOM	101	CD	LYS	A	223	32.859	14.291	39.943	1.00	72.22	6
		ATOM	102	CE	LYS	Α	223	31.798	13.318	39.430	1.00	74.55	6
		ATOM	103	NZ	LYS	Α	223	31.900	11.985	40.106	1.00	75.78	7
	20	ATOM	104	·C	LYS	A	223	31.913	18.565	39.681	1.00	42.81	6
		ATOM	105	0	LYS	Α	223	30.936	18.323	38.984	1.00	40.36	8
		ATOM	106	N	THR	Α	224	31.849	19.236	40.833	1.00	39.89	7
		ATOM	107	CA	THR	Α	224	30.602	19.792	41.378	1.00	39.93	6
		MOTA	108	СВ	THR	A	224	30.805	20.206	42.851	1.00	40.57	6
Ð	25	ATOM	109	OG1	THR	Α	224	31.330	19.113	43.616	1.00	39.27	8
IJ		ATOM	110	CG2	THR	Α	224	29.500	20.684	43.461	1.00	38.11	6
Ø		ATOM	111	С	THR			30.167	21.011	40.533	1.00	39.96	6
 -		ATOM	112	0	THR	Α	224	29.313	20.899	39.655	1.00	36.67	8
\		ATOM	113	N	VAL	A	225	30.777	22.160	40.832	1.00	38.02	7
4	30	ATOM	114	CA	VAL	Α	225	30.532	23.426	40.137	1.00	38.12	6
أيه: '		ATOM	115	CB	VAL	A	225	31.797	24.292	40.122	1.00	38.19	6
1555 1555		ATOM	116	CG1	VAL	A	225	31.512	25.636	39.491	1.00	36.77	6
		ATOM	117	CG2	VAL	Α	225	32.343	24.464	41.505	1.00	41.76	6
Į.Ų		ATOM	118	С	VAL	Α	225	30.070	23.195	38.706	1.00	37.52	6
ij C	35	ATOM	119	0	VAL	A	225	29.119	23.803	38.239	1.00	36.77	8
Ē		ATOM	120	N	THR	A	226	30.783	22.316	38.018	1.00	34.02	7
ij		ATOM	121	CA	THR	Α	226	30.489	21.971	36.636	1.00	34.67	6
· 113		ATOM	122	CB	THR	Α	226	31.565	20.999	36.083	1.00	30.56	6
		ATOM	123	OG1	THR	A	226	32.805	21.696	35.889	1.00	32.20	8
	40	ATOM	124	CG2	THR	Α	226	31.108	20.346	34.783	1.00	20.99	6
		ATOM	125	С	THR	Α	226	29.100	21.361	36.510	1.00	36.41	6
		ATOM	126	0	THR	Α	226	28.255	21.877	35.785	1.00	39.64	8
		MOTA	127	N	ALA	Α	227	28.880	20.260	37.222	1.00	39.20	7
		ATOM	128	CA	ALA	A	227	27.602	19.562	37.204	1.00	36.93	6
	45	ATOM	129	CB	ALA	Α	227	27.526	18.600	38.381	1.00	38.06	6
		ATOM	130	С	ALA	Α	227	26.507	20.604	37.318	1.00	37.69	6
		ATOM	131	0	ALA	Α	227	25.444	20.489	36.718	1.00	40.94	8
		ATOM	132	N	ALA	Α	228	26.811	21.630	38.107	1.00	32.86	7
		ATOM	133	CA	ALA	Α	228	25.903	22.734	38.356	1.00	32.48	6
	50	ATOM	134	СВ	ALA	Α	228	26.448	23.587	39.486	1.00	28.25	6
		ATOM	135	С	ALA	Α	228	25.732	23.570	37.101	1.00	36.12	6
		ATOM	136	0	ALA	Α	228	24.673	23.560	36.473	1.00	37.86	8
		ATOM	137	N	HIS	Α	229	26.782	24.306	36.752	1.00	33.58	7
		ATOM	138	CA	HIS	Α	229	26.762	25.158	35.585	1.00	32.97	6
	55	ATOM	139	CB	HIS	A	229	28.155	25.691	35.266	1.00	33.69	6
		ATOM	140	CG	HIS	A	229	28.250	26.333	33.929	1.00	28.39	6
		MOTA	141	CD2	HIS	A	229	29.025	26.081	32.838	1.00	28.83	6
		MOTA	142	ND1	HIS	A	229	27.386	27.368	33.542	1.00	30.47	7

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	5	ATOM	197	0	SER	A	237	26.605	21.418	21.797	1.00	75.47	8
		ATOM	198	N	HIS	A	238	24.648	22.410	22.353	1.00	75.56	7
		ATOM	199	CA	HIS	A	238	23.842	21.981	21.236	1.00	75.46	б
		ATOM	200	СВ	HIS	A	238	22.990	20.732	21.661	1.00	75.85	6
		MOTA	201	CG	HIS	A	238	22.408	19.933	20.542	1.00	40.00	б
	10	ATOM	202	CD2	HIS	A	238	22.790	18.757	19.957	1.00	40.00	6
		ATOM	203	ND1	HIS	A	238	21.223	20.303	19.875	1.00	40.00	7
		ATOM	204	CE1	HIS	Α	238	20.951	19.365	18.953	1.00	40.00	6
		ATOM	205	NE2	HIS			21.874	18.444	18.994	1.00	40.00	7
		ATOM	206	С	HIS	Α	238	22.971	23.284	20.964	1.00	74.10	6
	15	ATOM	207	0	HIS	Α	238	21.863	23.137	20.441	1.00	75.34	8
		ATOM	208	N			239	23.487	24.510	21.368	1.00	73.39	7
		ATOM	209	CA			239	22.872	25.894	21.195	1.00	74.02	6
		ATOM	210	СВ			239	23.563	27.026		1.00	81.77	6
		ATOM	211	CG			239	25.022	27.366	21.688		89.67	6
	20	ATOM	212	CD2	TRP			25.532	28.662	21.240		93.19	6
		ATOM	213	CE2	TRP			26.961	28.522	21.136		95.46	6
		ATOM	214	CE3	TRP			24.936	29.911	20.969		95.35	6
		ATOM	215	CD1	TRP			26.102	26.548	21.781		94.16	6
		ATOM	216	NE1	TRP			27.268	27.241	21.475		97.48	7
Ō	25	ATOM	217	CZ2	TRP			27.798	29.598	20.764		96.23	6
IU		ATOM	218	CZ3	TRP			25.763	30.967	20.569		96.75	6
(D		ATOM	219	CH2	TRP			27.171	30.825	20.482		97.32	6
4		ATOM	220	С	TRP			22.799	26.407	19.774		70.77	6
, 4		ATOM	221	0	TRP			21.706	26.562	19.263		71.70	8
44	30	ATOM	222	N	LYS			23.946	26.701	19.157		67.10	7
100		ATOM	223	CA	LYS			23.978	27.180	17.783		65.63	6
£!		ATOM	224	СВ	LYS			25.314	26.780	17.153		66.65	6
D		ATOM	225	CG	LYS			26.529	27.342	17.872		69.83	6
W	:	ATOM	226	CD	LYS			27.805	27.037	17.108		71.49	6
	35	ATOM	227	CE	LYS			28.980	27.720	17.776		71.31	6
		ATOM	228	NZ	LYS			30.238	27.438	17.034		72.23	7
Ü		ATOM	229	С	LYS			22.808	26.699	16.895		66.19	6
Ü		ATOM	230	0	LYS			22.550	27.298	15.851		65.20	8
		ATOM	231	N	ASN			22.113	25.640	17.325		66.69	7
	40	ATOM	232	CA	ASN			20.976	25.078	16.599		67.53	6
		ATOM	233	СВ	ASN			21.122	23.562	16.550		67.98	6
		ATOM	234	CG	ASN			22.304	23.121	15.693		70.19	6
		ATOM	235		ASN			22.404	23.506	14.503		71.37	8
		ATOM	236		ASN			23.176	22.310	16.271		71.48	7
	45	ATOM	237	С	ASN			19.570	25.421	17.152		66.62	6
		ATOM	238	0	ASN			18.581	24.822	16.731		64.76	8
		ATOM	239	N	LYS			19.475	26.380	18.069		66.86	7
		ATOM	240	CA	LYS			18.191	26.786	18.642		67.46	6
		ATOM	241	СВ	LYS			18.164	26.396	20.119		67.93	6
	50	ATOM	242	CG	LYS			18.250	24.896	20.337		71.52	6
		ATOM	243	CD	LYS			17.004	24.149	19.821		74.32	6
		ATOM	244	CE	LYS			15.755	24.491	20.643		74.41	6
		ATOM	245	NZ	LYS			15.927	24.161	22.109		74.44	7
		ATOM	246	C	LYS			18.143	28.291	18.483		66.28	6
	55	ATOM	247	.O	LYS			17.102	28.923	18.592		67.61	8
		ATOM	248	N	ARG			19.334	28.813	18.204		64.19	7
		ATOM	249	CA	ARG			19.617	30.219	17.975		62.43	6
		ATOM	250	СВ	ARG			21.070	30.274	17.463		60.12	6
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	5	ATOM	251	CG	ARG	A	243	21.665	31.636	17.305		40.00	6
		MOTA	252	CD	ARG	A	243	23.213	31.599	17.267		40.00	6
		ATOM	253	NE	ARG	Α	243	23.826	31.217	15.996	1.00	40.00	7
		ATOM	254	CZ	ARG	Α	243	25.113	31.439	15.714	1.00	40.00	6
		ATOM	255	NH1	ARG	A	243	25.905	32.041	16.616	1.00	40.00	7
	10	ATOM	256	NH2	ARG	Α	243	25.592	31.097	14.520	1.00	40.00	7
		ATOM	257	С	ARG	Α	243	18.639	30.789	16.950	1.00	62.97	6
		ATOM	258	0			243	18.662	30.390	15.784	1.00	63.96	8
		ATOM	259	N	LYS			17.771	31.692	17.393		62.41	7
		ATOM	260	CA	LYS			16.790	32.309	16.498		61.57	6
	15	ATOM	261	СВ	LYS			15.368	31.974	16.962		63.68	6
		ATOM	262	CG	LYS			15.102	30.471	17.104		71.29	6
		ATOM	263	CD	LYS			13.641	30.167	17.468		73.83	6
		ATOM	264	CE	LYS			13.182	30.908	18.737		74.71	6
		ATOM	265	NZ	LYS			13.951	30.536	19.970		73.32	7
	20	ATOM	266	C	LYS			17.009	33.806	16.501		59.30	6
	20	ATOM	267	0	LYS			16.562	34.514	17.399		56.34	8
					PHE			17.705		15.468		57.06	7
		ATOM	268	N					34.264	15.466		59.01	6
		ATOM	269	CA	PHE			18.045	35.692	14.049			
Ď	25	ATOM	270	CB	PHE			18.825	35.947			59.62	6
ĮŪ	25	ATOM	271	CG	PHE			19.908	34.979	13.834		66.60 67.17	6
Ü		ATOM	272		PHE			19.618	33.714	13.399			6
=		ATOM	273		PHE			21.198	35.309	14.139		69.25	6
, j		ATOM	274	CE1				20.614	32.794	13.255		69.92	6
<u></u>	20	ATOM	275		PHE			22.189	34.385	13.994		70.50	6
ંતું .	30	ATOM	276	CZ	PHE			21.897	33.126	13.552		70.89	6
41		ATOM	277	C	PHE			16.856	36.620	15.340	1.00		6
		ATOM	278	0	PHE			15.946	36.516	14.528		62.37	8
لبا		ATOM	279	N	LEU			16.919	37.558	16.272		60.10	7
	3.5	ATOM	280	CA	LEU			15.884	38.554	16.437		59.44	6
IJ	35	ATOM	281	CB	LEU			16.227	39.510	17.585		57.43	6
١Ū		ATOM	282	CG	LEU			15.100	40.384	18.086		54.41	6
Ð		ATOM	283		LEU			14.010	39.474	18.640		52.43	6
		ATOM	284		LEU			15.575	41.325	19.151		51.69	6
	40	ATOM	285	C	LEU			15.717	39.330	15.135		62.05	6
	40	ATOM	286	0	LEU			16.706		14.430		59.85	8
		ATOM	287	N	PRO			14.473	39.668	14.784		63.33	7
		ATOM	288	CD	PRO			13.263	39.314	15.534		64.44	6
		ATOM	289	CA	PRO			14.198	40.421	13.558		63.56	6
	4.5	ATOM	290	CB	PRO			12.687	40.671	13.600		64.42	6
	45	ATOM	291	CG	PRO			12.161	39.922	14.729		64.90	6
•		ATOM	292	С	PRO			14.996	41.733	13.496		61.94	6
		MOTA	293	0	PRO			15.159	42.455	14.486		61.60	8
		ATOM	294	N	GLU			15.506	42.006	12.299		61.33	7
		ATOM	295	CA	GLU			16.280	43.197	11.976		63.50	6
	50	MOTA	296	CB	GLU	A	248	16.481	43.273	10.437	1.00	66.94	6
		ATOM	297	CG	GLU	Α	248	17.012	44.671	9.966	1.00	68.70	6
		ATOM	298	CD	GLU	Α	248	16.981	44.939	8.471	1.00	40.00	6
		ATOM	299	OE1	GLU	Α	248	16.432	44.144	7.644	1.00	40.00	8
		ATOM	300	OE2	GLU	A	248	17.509	46.015	8.086	1.00	40.00	8
	55	ATOM	301	С	GLU	A	248	15.624	44.489	12.458	1.00	64.19	6
		ATOM	302	0	GLU	A	248	16.298	45.395	12.918	1.00	65.56	8
		ATOM	303	N	ASP	Α	249	14.300	44.545	12.323	1.00	64.36	7 .
		MOTA	304	CA	ASP	A	249	13.493	45.703	12.673	1.00	63.33	6

	5	MOTA	305	CB	ASP 2	A	249	12.088	45.531	12.116	1.00	62.97	6
		MOTA	306	CG	ASP I	A	249	11.277	44.527	12.870	1.00	64.63	6
		ATOM	307	OD1	ASP .	A	249	11.687	43.352	12.963	1.00	64.84	8
		ATOM	308	OD2	ASP A	A	249	10.183	44.880	13.395	1.00	66.52	8
		ATOM	309	С	ASP 2	A	249	13.371	46.062	14.130	1.00	64.31	6
	10	ATOM	310	0	ASP A			13.310	47.250 .	14.468		64.73	8
	- 0	ATOM	311	N	ILE			13.274	45.049	14.997		63.09	7
		ATOM	312	CA	ILE			13.133	45.318	16.418		64.39	6
		ATOM	313	СВ	ILE			13.035	44.034	17.214		65.79	6
		ATOM	314	CG2	ILE A			12.001	44.104	18.336		64.78	6
	15	ATOM	315	CG1	ILE			12.611	42.860	16.341		65.28	6
	13											65.28	
		ATOM	316	CD1	ILE A			11.753	41.852	17.088			6
		ATOM	317	C	ILE A			14.404	46.104	17.276		65.21	6
		ATOM	318	0	ILE A			15.155	45.506	18.047		64.05	8
		MOTA	319	N	GLY A			14.670	47.529	17.299		65.48	7
	20	MOTA	320	CA	GLY A			15.871	48.326	18.042		67.32	6
		MOTA	321	С	GLY A			16.595	49.110	16.895		68.52	6
		ATOM	322	0	GLY A			17.528	48.616	16.266		65.49	8
		ATOM	323	N	GLN A			16.162	50.356	16.557	1.00	72.26	7
		MOTA	324	CA	GLN A	A	252	16.541	50.930	15.207	1.00	74.10	6
· D	25	MOTA	325	CB	GLN Z	Ą	252	15.316	50.844	14.295	1.00	75.82	6
IJ		ATOM	326	С	GLN A	A	252	16.995	52.403	15.084	1.00	77.17	6
Œ		ATOM	327	0	GLN A	A	252	17.572	52.955	15.986	1.00	76.50	8
ᆂ		ATOM	328	N	ALA A	A	253	16.374	53.372	13.908	1.00	80.78	7
100		ATOM	329	CA	ALA A	A	253	16.687	54.725	13.567	1.00	83.70	6
<u> </u> =	30	ATOM	330	CB	ALA A	Ą	253	16.381	54.956	12.093	1.00	83.23	6
. se.		ATOM	331	C	ALA A			16.159	55.960	14.345		85.59	6
91 		ATOM	332	0	ALA A			15.317	56.721	13.798		85.69	8
		ATOM	333	N	PRO A			16.384	56.155	16.264		35.05	7
IJ		MOTA	334	CD	PRO A			17.102	55.053	16.908	-	33.97	6
	35	ATOM	335	CA	PRO A			16.002	57.231	17.219		35.89	6
닏		MOTA	336	СВ	PRO A			16.534	56.756	18.563		33.94	6
Ü		ATOM	337	CG	PRO A			17.146	55.441	18.349		33.31	6
Ū		ATOM	338	C	PRO A			16.717	58.498	16.731		37.75	6
		ATOM	339	0	PRO A			17.838	58.804	17.100			8
	40	TER				•		27.000	30.00.	271200	2.00	30110	•
		ATOM	1	N	LYS A	۹.	263	18.045	57.462	23.875	1 00	61.71	7
		ATOM		CA	LYS A			16.824	56.712	24.215		64.36	6
		ATOM	3	СВ	LYS A			15.758	57.004	23.141		63.50	6
		ATOM	4	C	LYS A			16.841	55.180	24.429		63.41	6
	45	ATOM	5	0	LYS A			17.877	54.542	24.409		61.93	8
	73		6		VAL A				54.664			61.15	7
		ATOM		N				15.615		24.654			
		ATOM	7	CA	VAL A			15.292	53.229	24.856		59.46	6
		ATOM	8	CB	VAL A			14.251	52.974	25.978		59.03	6
	50	ATOM	9		VAL A			14.229	51.494	26.368		53.79	6
	50	ATOM	10		VAL A			14.449	53.818	27.142		55.32	6
		ATOM	11	С	VAL A			14.590	52.820	23.554		60.96	6
		ATOM	12	0	VAL A			14.734	53.468	22.508		62.13	8
		ATOM	13	N	ASP A			13.802	51.755	23.634		62.59	7
		ATOM	14	CA	ASP A			12.995	51.263	22.526		64.95	6
	55	ATOM	15	СВ	ASP A			13.825	51.077	21.271		64.32	6
		ATOM	16	CG	ASP F			13.282	50.048	20.485		67.70	6
		ATOM	17		ASP A			12.795	50.011	19.446		72.59	8
		ATOM	18	OD2	ASP A	A.	265	13.354	48.867	20.294	1.00	68.84	8

	5	ATOM	19	С	ASP	A	265	12.326	49.943	22.952		65.64	6
		ATOM	20	0	ASP	A	265	12.771	48.850	22.655	1.00	68.81	8
		ATOM	21	N	LEU	A	266	11.256	50.152	23.702	1.00	65.12	7
		ATOM	22	CA	LEU	A	266	10.368	49.169	24.288	1.00	63.40	6
		ATOM	23	CB	LEU	Α	266	9.115	49.938	24.708	1.00	67.34	6
	10	ATOM	24	CG	LEU	A	266	9.399	51.124	25.618	1.00	69.35	6
		ATOM	25	CD1	LEU	A	266	8.304	52.148	25.533	1.00	68.24	6
		ATOM	26	CD2	LEU	A	266	9.581	50.631	27.021	1.00	70.47	6
		ATOM	27	С	LEU	Α	266	9.940	47.888	23.559	1.00	59.67	6
		ATOM	28	0	LEU	A	266	9.694	46.879	24.220	1.00	53.35	8
	15	ATOM	29	N	GLU	Α	267	9.815	47.904	22.235	1.00	58.01	7
		ATOM	30	CA	GLU	Α	267	9.417	46.682	21.572	1.00	58.34	6
		ATOM	31	СВ	GLU	A	267	9.311	46.855	20.048	1.00	59.21	6
		ATOM	32	CG	GLU	Α	267	9.129	45.494	19.322	1.00	62.89	6
		ATOM	33	CD	GLU			8.736	45.592	17.883		67.66	6
	20	ATOM	34	OE1				9.433	46.263	17.080		69.95	8
		ATOM	35		GLU			7.710	44.974	17.503		69.40	8
		ATOM	36	С	GLU			10.504	45.683	21.895		57.67	6
		ATOM	37	ō	GLU			10.255	44.485	21.988		58.34	8
		ATOM	38	N	ALA			11.712	46.222	22.054		53.43	7
Ü	25	ATOM	39	CA	ALA			12.903	45.454	22.374		49.00	6
Iu		ATOM	40	СВ	ALA			14.137	46.241	21.983		45.72	6
Œ		ATOM	41	C	ALA			12.908	45.196	23.873		45.76	6
ا لم		ATOM	42	0	ALA			12.887	44.042	24.307		41.50	8
150		ATOM	43	N	PHE			12.918	46.277	24.663		41.43	7
	30	ATOM	44	CA	PHE			12.920	46.158	26.118		43.96	6
	20	ATOM	45	СВ			269	12.395	47.426	26.777		40.10	. 6
21		ATOM	46	CG			269	12.332	47.345	28.271		40.44	6
		ATOM	47	CD1	PHE			13.457	47.595	29.034		38.98	6
		ATOM	48	CD2	PHE			11.165	46.946	28.903		37.15	6
i.i.j	35	ATOM	49	CE1	PHE			13.409	47.469	30.436		32.12	6
		ATOM	50		PHE			11.105	46.815	30.303		38.41	6
Đ		ATOM	51	CZ	PHE			12.228	47.070	31.071		40.55	6
لِيَةِ ا		ATOM	52	c	PHE			12.017	45.012	26.520		49.76	6
		ATOM	53	0	PHE			12.277	44.324	27.484		52.15	8
	40	ATOM		N	SER			10.934	44.835	25.768		53.15	7
		ATOM	55	CA	SER			9.988	43.768	26.043		52.29	6
		ATOM	56	СВ	SER			8.727	43.943	25.215		51.85	6
		ATOM	57	OG	SER			7.785	42.918	25.497		53.42	8
		ATOM	58	C	SER			10.637	42.464	25.685		49.38	6
	45	ATOM	59	Õ	SER			11.068	41.741	26.562		48.74	8
		ATOM	60	N	HIS			10.683	42.173	24.383		50.15	7
		ATOM	61	CA	HIS			11.276	40.932	23.877		51.67	6
		ATOM	62	СВ	HIS			11.797	41.118	22.455		58.52	6
	•	ATOM	63	CG	HIS			10.775	40.885	21.399		68.97	6
	50	ATOM	64		HIS			10.773	39.891	20.485		70.88	6
	50	ATOM	65		HIS			9.673	41.732	21.199		71.98	7
		ATOM	66		HIS			8.936	41.732	20.209		73.91	6
		ATOM	67		HIS			9.495	40.132	19.764		73.59	7
		ATOM	68	C	HIS			12.402	40.132	24.745		48.33	6
		ATOM	69	0	HIS			12.402	39.225	24.743		48.39	8
		ATOM	70	N	PHE			13.029	41.334	25.487		41.34	7
		ATOM	71	CA	PHE			14.130	41.334	26.384		39.44	6
		ATOM	71 72	CB				15.077	42.194	26.512		36.67	6
		HI OFF	12	CD	PHE	~	212	13.077	76.174	20.312	1.00	50.67	U

	5	MOTA	73	CG	PHE A	a 272	15.953	42.413	25.282	1.00 33.39	6
		ATOM	74	CD1	PHE A	A 272	16.619	43.615	25.093	1.00 33.14	6
		ATOM	75	CD2	PHE A	A 272	16.138	41.394	24.346	1.00 38.28	6
		ATOM	76	CEl	PHE A	A 272	17.454	43.807	23.988	1.00 38.26	6
		ATOM	77	CE2	PHE P	A 272	16.973	41.585	23.244	1.00 43.28	6
	10	ATOM	78	CZ	PHE A	A 272	17.634	42.786	23.068	1.00 39.74	6
		ATOM	79	С	PHE F	A 272	13.650	40.528	27.764	1.00 40.75	6
		ATOM	80	0	PHE A		14.081	39.476	28.227	1.00 35.51	8
		ATOM	81	N	THR A	A 273	12.756	41.266	28.428	1.00 41.64	7
		ATOM	82	CA	THR A		12.290	40.854	29.757	1.00 45.97	6
	15	ATOM	83	СВ	THR F		11.651	42.025	30.506	1.00 51.52	6
		ATOM	84	OG1			10.442	42.422	29.859	1.00 45.74	8
		ATOM	85	CG2	THR A		12.601	43.211	30.565	1.00 49.73	6
		ATOM	86	C	THR F		11.267	39.731	29.664	1.00 46.23	6
		ATOM	87	0	THR F		10.854	39.183	30.680	1.00 41.21	8
	20	MOTA	88	N	LYS F		10.849	39.412	28.440	1.00 46.21	7
		MOTA	89	CA	LYS F		9.871	38.362	28.211	1.00 54.53	6
		ATOM	90	CB	LYS A		9.414	38.405	26.773	1.00 54.36	6
		ATOM	91	C	LYS A		10.498	37.015	28.515	1.00 56.88	6
		ATOM	92	Ö	LYS F		9.789	36.044	28.759	1.00 57.98	8
Ë	25	ATOM	93	N	ILE F		11.836	36.973	28.491	1.00 56.48	7
ĮŪ	23	ATOM	94	CA	ILE A		12.609	35.746	28.767	1.00 52.64	6
Ö		MOTA	95	CB	ILE A		13.444	35.346	27.543	1.00 32.04	6
į.		ATOM	96	CG2			12.568	34.829	26.429	1.00 47.42	6
الم		MOTA	97	CG1	ILE A		14.238	36.532	27.026	1.00 47.42	6
14	30	ATOM	98	CD1	ILE A		15.001	36.242	25.771	1.00 43.31	6
120	30	ATOM	99	C	ILE A		13.541	35.870	29.982	1.00 57.22	6
31		ATOM	100	0	ILE A		14.014	34.873	30.503	1.00 31.78	8
		ATOM	101	N	ILE A		13.790	37.107	30.415	1.00 49.80	7
إرإ		ATOM	102	CA	ILE A		14.681	37.107	31.537	1.00 51.78	6
	35	ATOM	103	CB	ILE A		14.691	38.877	31.844	1.00 55.04	6
	55	ATOM	103	CG2	ILE A		13.311	39.340	32.261	1.00 53.04	6
Ü		ATOM	105	CG1	ILE A		15.675	39.206	32.201	1.00 57.31	6
Ę		ATOM	106	CD1	ILE A		17.096	38.942	32.655	1.00 60.32	6
		ATOM	107	C	ILE A		14.323	36.644	32.828	1.00 50.70	6
	40	ATOM	108	0	ILE A		15.177	36,458	33.691	1.00 55.55	_
		ATOM	109	N	THR A		13.177	36.209	32.963	1.00 33.33	8 7
	•	ATOM	110	CA	THR A		12.631	35.523	34.158	1.00 47.55	6
		ATOM	111	CB	THR A		11.098	35.456	34.217	1.00 44.97	6
		ATOM	112		THR A		10.545	36.777	34.102	1.00 44.37	8
	45	ATOM	113	CG2	THR A		10.657	34.838	35.539	1.00 48.38	
	73	ATOM	114	C	THR A		13.211	34.118	34.304		6
		ATOM								1.00 39.84	6
			115	0	THR A		13.796	33.796	35.365	1.00 40.55	8
		ATOM	116	N	PRO A		13.055	33.261	33.288	1.00 38.20	7
	50	ATOM	117	CD	PRO A		12.370	33.534	32.023	1.00 36.34	6
	30	ATOM	118	CA	PRO A		13.595	31.894	33.363	1.00 36.63	6
		ATOM	119	CB	PRO A		13.153	31.244	32.064	1.00 32.95	6
		ATOM	120	CG	PRO A		12.573	32.291	31.239	1.00 35.75	6
		ATOM	121	С	PRO A		15.101	31.932	33.476	1.00 38.60	6
	55	ATOM	122	0	PRO A		15.746	30.981	33.898	1.00 37.67	8
	J	ATOM	123	N	ALA A		15.656	33.051	33.035	1.00 37.05	7
		ATOM	124	CA	ALA A		17.087	33.277	33.041	1.00 33.18	6
		ATOM	125	СВ	ALA A		17.376	34.599	32.348	1.00 30.56	6
		ATOM	126	С	ALA A	. 219	17.624	33.312	34.452	1.00 33.47	6



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	5	ATOM	127	0	ALA	A	279	18.523	32.555	34.789		33.74	8
	•	ATOM	128	N	ILE	A	280	17.060	34.215	35.260		29.96	7
		ATOM	129	CA	ILE	Α	280	17.459	34.362	36.646		25.94	6
		ATOM	130	CB	ILE	Α	280	16.686	35.484	37.315		26.95	6
		ATOM	131	CG2	ILE	A	280	17.109	35.632	38.733		15.40	6
	10	ATOM	132	CG1	ILE	Α	280	16.931	36.808	36.595		26.73	6
	. •	ATOM	133	CD1	ILE	Α	280	16.292	38.002	37.272		34.31	6
		ATOM	134	С	ILE	A	280	17.263	33.066	37.412		31.39	6
		MOTA	135	0			280	18.116	32.679	38.207		35.69	8
		ATOM	136	N			281	16.145	32.386	37.165		30.90	7
	15	ATOM	137	CA			281	15.854	31.118	37.851		33.49	6
	1.5	ATOM	138	СВ			281	14.598	30.413	37.277		37.18	6
		ATOM	139	OG1			281	14.795	30.099	35.898		46.48	8
		MOTA	140	CG2			281	13.352	31.281	37.444	1.00	32.85	6
		ATOM	141	C			281	17.045	30.176	37.713	1.00	29.94	6
	20	ATOM	142	Ö			281	17.478	29.546	38.684	1.00		8
	20	ATOM	143	N			282	17.561	30.076	36.489	1.00	32.70	7
		ATOM	144	CA			282	18.692	29.198	36.218	1.00	34.27	6
		ATOM	145	СВ			282	19.136	29.374	34.780	1.00	33.78	б
		ATOM	146	CG			282	19.272	28.086	34.013	1.00	45.15	6
Ü	25	ATOM	147	CD			282	18.179	27.921	32.977	1.00	58.24	б
ĬŨ.	23	ATOM	148	NE			282	18.041	29.077	32.117	1.00	68.41	7
Ü		ATOM	149	CZ			282	19.018	29.529	31.352	1.00	72.31	6
1-		ATOM	150	NH1			282	20.190	28.886	31.327	1.00	77.89	7
نميا		ATOM	151				282	18.802	30.593	30.595	1.00	69.25	7
	30	MOTA	152	C			282	19.823	29.582	37.170	1.00	34.81	6
[- <u>-</u> -	30	ATOM	153	o			282	20.380	28.735	37.855	1.00	36.03	8
El		ATOM	154	Ŋ			283	20.135	30.882	37.190	1.00	31.71	7
		ATOM	155	CA			283	21.171	31.434	38.057	1.00	30.16	6
٠٠		ATOM	156	CB			283	21.198	32.965	37.981	1.00	29.00	6
i.J	35	ATOM	157	CG1			283	22.208	33.533	38.952	1.00	28.64	6
	33	ATOM	158	CG2			283	21.525	33.415	36.578	1.00	28.28	6
D		ATOM (159	C			283	20.942	30.992	39.498	1.00	32.50	6
ì.		ATOM	160	0			283	21.879	30.717	40.229	1.00	33.48	8
		ATOM	161	N			284	19.671	30.941	39.892	1.00	30.96	7
	40	ATOM	162	CA			284	19.289	30.527	41.239	1.00	29.14	6
	70	ATOM	163	СВ			284	17.822	30.865	41.548	1.00	31.27	6
		ATOM	164				284	17.472	30.461	42.945	1.00	24.21	б
		ATOM	165				284	17.555	32.334	41.360	1.00	30.51	6
		ATOM	166	C			284	19.529	29.037	41.353	1.00	28.89	6
	45	ATOM	167	Ö			284	20.073	28.568	42.345	1.00	27.29	8
	43	ATOM	168	N			285	19.121	28.296	40.327	1.00	28.76	7
		ATOM	169	CA			285	19.277	26.842	40.306	1.00	35.32	6
		ATOM	170	CB			285	18.586	26.234	39.072	1.00	33.29	6
		ATOM	171	CG			285	17.083	26.277	39.149	1.00	38.15	6
	50	MOTA	172				285	16.484	25.743	40.110	1.00	34.70	8
	50	MOTA	173				285	16.431	26.828	38.231	1.00	34.43	8
•		MOTA	174	C			285	20.751	26.449	40.305	1.00	36.70	6
		ATOM	175	0			285	21.106	25.389	40.808	1.00	37.96	8
		ATOM	176	N			286	21.604	27.300	39.737		35.96	7
	55	ATOM	177	CA			286	23.029	27.022	39.704	1.00	37.10	6
	,,	ATOM	178	СВ			286	23.754	28.009	38.793	1.00	37.97	6
		ATOM	179	CG			286	25.252	28.027	38.987	1.00	36.50	6
		ATOM	180				286	25.963	26.849	38.974		36.75	6
		MION	100		**	- '	- 	= = - = = =	_				

	5	ATOM	181	CD2	PHE	А	286	25.931	29.218	39.199	1.00	33.83	6
	•	ATOM	182		PHE			27.331	26.860	39.161		39.55	6
		ATOM	183	CE2	PHE			27.307	29.233	39.387		38.08	6
		ATOM	184	CZ			286	28.008	28.052	39.371		34.44	6
		ATOM	185	C			286	23.631	27.105	41.083	1.00	36.83	6
	10	ATOM	186	Ö	PHE			24.317	26.192	41.504		35.61	8
		ATOM	187	N	ALA			23.393	28.228	41.752		37.33	7
		ATOM	188	CA	ALA			23.917	28.448	43.087		36.34	б
		ATOM	189	CB	ALA			23.523	29.828	43.555		36.40	6
		ATOM	190	C	ALA			23.346	27.393	44.027		38.76	б
	15	ATOM	191	0	ALA			23.994	26.973	44.981		41.98	8
		ATOM	192	N	LYS			22.114	26.979	43.735	1.00	38.28	7
		ATOM	193	CA	LYS			21.429	25.971	44.538	1.00	45.26	6
		MOTA	194	CB	LYS			19.994	25.746	44.054	1.00	48.35	6
		ATOM	195	CG	LYS	Α	288	19.025	26.819	44.464	1.00	51.43	б
	20	ATOM	196	CD	LYS	A	288	17.628	26.246	44.682	1.00	60.23	6
		ATOM	197	CE	LYS	A	288	17.135	25.478	43.485	1.00	62.81	6
		ATOM	198	NZ	LYS	A	288	17.196	26.327	42.268	1.00	64.69	7
		ATOM	199	С	LYS	Α	288	22.120	24.632	44.536	1.00	43.31	6
		ATOM	200	0	LYS	A	288	21.967	23.857	45.462	1.00	45.66	8
ıØ	25	ATOM	201	N	LYS	A	289	22.865	24.366	43.467	1.00	41.70	7
IJ		ATOM	202	CA	LYS	A	289	23.571	23.120	43.351	1.00	40.67	6
Ø		ATOM	203	СВ	LY\$	A	289	23.655	22.708	41.877	1.00	42.25	6
ļ.		ATOM	204	CG	LYS	Α	289	22.271	22.492	41.247	1.00	39.53	6
, A		ATOM	205	CD	LYS	Α	289	22.331	21.606	40.012	1.00	43.19	6
	30	ATOM	206	CE	LYS	A	289	20.941	21.362	39.447		45.74	6
		ATOM	207	NZ	LYS	A	289	20.273	20.165	40.006	1.00	52.49	7
		ATOM	208	С	LYS	A	289	24.948	23.185	44.003		41.50	6
		MOTA	209	0	LYS			25.642	22.184	44.080		39.77	8
		ATOM	210	N	LEU			25.312	24.370	44.490		40.68	7
	35	ATOM	211	CA	LEU			26.594	24.583	45.149		39.33	6
Ū		ATOM	212	CB	LEU			27.153	25.972	44.829		36.14	6
Ō		ATOM	213	CG	LEU			27.358	26.290	43.365		34.81	6
		ATOM	214	CD1	LEU			27.945	27.675	43.208		29.07	6
	40	ATOM	215		LEU			28.267	25.242	42.757		33.45	6
	40	ATOM	216	С	LEU			26.434	24.405	46.652		40.08	6
		ATOM	217	0	LEU			25.803	25.235	47.333		42.00	8
		ATOM	218	N	PRO			27.028	23.333	47.210		40.27	7
		ATOM	219	CD	PRO			27.851	22.330	46.519		39.65	6
	45	ATOM	220	CA	PRO			26.905	23.096	48.659		38.28	6
	43	ATOM	221	CB	PRO			27.755	21.860	48.911		35.88	6
		ATOM	222	CG	PRO			28.202	21.355	47.585		34.19	6
		ATOM	223	C	PRO			27.327	24.298	49.522		40.05	6
		ATOM	224	0	PRO			26.571	24.739 24.843	50.391		41.33	8 7
	50	ATOM	225	N	MET MET			28.522 29.021	25.957	49.299 50.097		42.86	6
	50	ATOM	226 227	CA CB	MET			30.313	26.475	49.477		43.28	6
		ATOM	228	CG	MET			31.269	25.378	49.477		50.35	6
		ATOM			MET			32.895	26.096	49.030		51.17	16
		ATOM ATOM	229 230	SD CE	MET			33.812	24.647	48.737		54.63	6
	55	ATOM	231	CE	MET			27.984	27.066	50.149		41.05	6
	J J	ATOM	232	0	MET			27.986	27.886	51.057		39.66	8
		ATOM	232	N	PHE			27.080	27.078	49.172		39.30	7
		ATOM	234	CA	PHE			26.030	28.091	49.114		40.92	6
		-11-01/1	203	J. 1		- 1		_0.000	20.071		1.00		•

	5	ATOM	235	СВ	PHE	Α	293	25.398	28.107	47.715	1.00	40.98	6
		MOTA	236	CG	PHE	A	293	24.348	29.168	47.524	1.00	42.78	6
		ATOM	237	CD1			293	24.654	30.493	47.747	1.00		6
		ATOM	238	CD2			293	23.071	28.833	47.116		43.66	6
		ATOM	239	CE1			293	23.701	31.478	47.564		39.83	6
	10	ATOM	240	CE2			293	22.112	29.819	46.930		46.21	6
	10			CZ			293	22.430	31.146	47.155		45.18	6
		ATOM	241										
		ATOM	242	С			293	24.979	27.772	50.164		45.54	6
		ATOM	243	0			293	24.686	28.576	51.034		42.01	8
		MOTA	244	N			294	24.426	26.572	50.062	1.00		7
	15	ATOM	245	CA			294	23.386	26.125	50.962	1.00	50.15	6
		ATOM	246	CB			294	22.944	24.733	50.524	1.00	45.90	6
		MOTA	247	SG	CYS	Α	294	22.303	24.663	48.829	1.00	51.50	16
		ATOM	248	C	CYS	Α	294	23.825	26.125	52,423	1.00	51.38	6
		ATOM	249	0	CYS	Α	294	23.008	25.954	53.322	1.00	53.83	8
	20	ATOM	250	N			295	25.119	26.327	52.645		49.72	7
		ATOM	251	CA			295	25.666	26.384	53.996		52.53	6
		ATOM	252	СВ			295	27.103	25.830	54.015		57.40	6
		ATOM	253	CG			295	27.182	24.309	54.061		69.63	6
		ATOM	254	CD			295	26.660	23.747	55.342	1.00	78.49	6
Ü	25			OE1								82.82	
ΪŪ	23	ATOM	255				295	27.291	23.946	56.412			8
Ø		ATOM	256	OE2	GLU			25.590	23.086	55.335		85.30	8
-L		MOTA	257	С			295	25.653	27.831	54.488		48.54	6
'نوا		ATOM	258	0			295	26.365	28.184	55.426	1.00	49.82	8
į.4		ATOM	259	N			296	24.804	28.631	53.846	1.00		7
, ef	30	ATOM	260	CA			296	24.670	30.034	54.159	1.00	45.42	6
		ATOM	261	CB	LEU	A	296	25.062	30.864	52.923	1.00	41.04	6
		ATOM	262	CG	LEU	Α	296	26.438	30.658	52.315	1.00	42.74	6
ند. زیرا		ATOM	263	CD1	LEU	Α	296	26.447	31.030	50.861	1.00	40.99	6
1.1		ATOM	264	CD2	LEU	Α	296	27.437	31.454	53.086	1.00	39.44	6
	35	ATOM	265	С	LEU	A	296	23.239	30.366	54.548	1.00	45.56	6
ليو) ياتار .		ATOM	266	0	LEU	Α	296	22.301	29.660	54.148	1.00	43.07	8
Û		ATOM	267	N			297	23.050	31.405	55.365	1.00	46.99	7
٠Ō		ATOM	268	CD	PRO			24.121	32.241	55.930		47.12	6
		ATOM	269	CA	PRO			21.700	31.811	55.787		49.61	6
	40	ATOM	270	CB	PRO			21.937	32.990	56.738		49.91	_
	10	ATOM	271	CG	PRO			23.401	33.155	56.872		51.28	6
			272						32.212				6
		ATOM		С	PRO			20.864		54.558		49.59	6
		ATOM	273	0	PRO			21.402	32.684	53,556		51.66	8
	4.5	ATOM	274	N	CYS			19.545	32.035	54.655		51.02	7
	45	MOTA	275	CA	CYS			18.618	32.369	53.567		52.86	6
		ATOM	276	CB	CYS			17.201	31.877	53.915		54.57	6
		ATOM	277	SG	CYS			16.040	33.162	54.440	1.00	67.87	16
		ATOM	278	С	CYS	Α	298	18.583	33.863	53.291	1.00	48.51	6
		ATOM	279	0	CYS	Α	298	18.039	34.288	52.282	1.00	49.58	8
	50	ATOM	280	N	GLU	Α	299	19.144	34.654	54.202	1.00	44.17	7
		ATOM	281	CA	GLU	Α	299	19.179	36.096	54.016	1.00	47.57	6
		ATOM	282	СВ	GLU	Α	299	19.265	36.833	55.360		49.92	6
		ATOM	283	CG	GLU			17.931	36.996	56.125		59.30	6
		ATOM	284	CD	GLU			17.613	35.904	57.095		63.80	6
	55	ATOM	285	OE1	GLU			16.512	35.952	57.706		69.03	8
		ATOM	286	OE2	GLU			18.436	34.976	57.700		67.10	8
		ATOM	287	C	GLU			20.359	36.492			46.57	
										53,152			6
		ATOM	288	0	GLU	A	499	20.265	37.441	52.379	1.00	44.65	8

5	ATOM	289	N	ASP .	A	300	21.467	35.765	53.294	1.00	45.17	7
	ATOM	290	CA	ASP .	A	300	22.661	36.042	52.509	1.00	43.32	6
	ATOM	291	СВ	ASP			23.919	35.513	53.213	1.00		6
	ATOM	292	CG	ASP			24.223	36.239	54.473	1.00		6
	ATOM	293		ASP			24.153	37.488	54.493	1.00		8
10		294	OD2				24.572	35.575	55.483		40.14	8
10		295		ASP			22.514	35.370	51.138		42.81	
	MOTA		С									6
	ATOM	296	0	ASP A			22.775	36.021	50.113		46.02	8
	ATOM	297	N	GLN A			22.095	34.124	51.137	1.00		7
	ATOM	298	CA	GLN A			21.896	33.390	49.902		40.00	6
15		299	CB	GLN Z			20.991	32.179	50.137	1.00		6
	MOTA	300	CG	GLN A	A	301	21.644	31.003	50.808	1.00		6
	MOTA	301	CD	GLN A	A	301	20.690	29.824	50.988	1.00	44.15	6
	ATOM	302	OE1	GLN 2	A	301	19.658	29.957	51.675	1.00	45.73	8
	ATOM	303	NE2	GLN A	A	301	21.027	28.685	50.394	1.00	46.13	7
20) ATOM	304	С	GLN A	A	301	21.242	34.305	48.877	1.00	41.64	6
	ATOM	305	0	GLN 2			21.482	34.185	47.686		45.02	8
	ATOM	306	N	ILE			20.413	35.228	49.372		41.01	7
	ATOM	307	CA	ILE			19.726	36.179	48.511		40.23	6
i era	ATOM	308	CB	ILE A			18.502	36.774	49.217		39.52	6
D 25		309	CG2				17.818	37.788	48.342		31.98	6
iu iu											40.77	
i D	ATOM	310	CG1				17.502	35.673	49.581			6
id id	ATOM	311	CD1				17.003	34.897	48.385		45.43	6
, A	ATOM	312	C	ILE A			20.698	37.268	48.096	1.00	38.58	6
	ATOM	313	0	ILE A			20.960	37.453	46.906		40.81	8
<u> </u> 30		314	N	ILE A			21.228	37.972	49.097	1.00		7
	ATOM	315	CA	ILE A			22.179	39.060	48.874		39.33	6
1 mm²	ATOM	316	CB	ILE A	Ą	303	23.023	39.338	50.109	1.00	39.06	6
	MOTA	317	CG2	ILE A	Ą	303	23.946	40.522	49.861	1.00	36.19	6
IJ	ATOM	318	CG1	ILE A	Ą	303	22.141	39.653	51.313	1.00	40.15	6
14 35 15 15 15	ATOM	319	CD1	ILE A	Α	303	22.916	39.806	52.589	1.00	36.93	6
i	ATOM	320	С	ILE A	Ą	303	23.093	38.705	47.722	1.00	36.49	6
. #J	ATOM	321	0	ILE A	Ą	303	23.354	39.509	46.835	1.00	36.58	8
. H	ATOM	322	N	LEU Z	Ą	304	23.580	37.477	47.762	`1.00	32.91	7
	ATOM	323	CA	LEU A			24.465	36.964	46.734		27.55	6
40		324	СВ	LEU A			24.935	35.554	47.123			6
_	ATOM	325	CG	LEU A			26.150	35.480	48.029		26.88	6
	ATOM	326		LEU A			26.267	36.731			24.82	6
	ATOM	327		LEU A			26.084	34.226	48.861		23.69	6
	ATOM	328	C	LEU A			23.764	36.968	45.389		28.05	6
45		329	0	LEU A							24.68	
40							24.212	37.623	44.443			8
	ATOM	330	N	LEU A			22.657	36.236	45.318		26.34	7
	ATOM	331	CA	LEU A			21.892	36.147	44.089		30.91	6
	ATOM	332	CB	LEU A			20.565	35.434	44.359		32.50	6
	ATOM	333	CG	LEU A			20.637	33.950	44.635		33.36	6
50		334		LEU A			19.247	33.370	44.779		33.87	6
	MOTA	335	CD2	LEU A			21.340	33.280	43.466	1.00	31.72	6
	MOTA	336	С	LEU A	4	305	21.665	37.524	43.477	1.00	29.76	6
	ATOM	337	0	LEU A	¥.	305	21.954	37.747	42.301	1.00	29.33	8
	ATOM	338	N	LYS A	Ą	306	21.157	38.439	44.298	1.00	29.72	7
55	ATOM	339	CA	LYS A	4	306	20.868	39.800	43.864	1.00	34.28	6
	ATOM	340	СВ	LYS A			20.293	40.615	45.026		35.98	6
	ATOM	341	CG	LYS A			18.919	40.163	45.511		43.35	6
	ATOM	342	CD	LYS A			18.397	41.127	46.559		51.50	6
				•	-							-

	5	ATOM	343	CE	LYS .	Α	306	18.271	42.515	45.971	1.00	53.26	6
		MOTA	344	NZ	LYS .	A	306	18.325	43.548	47.038	1.00	59.61	7
		ATOM	345	С	LYS	Α	306	22.075	40.527	43.302	1.00	35.25	6
		ATOM	346	0	LYS .	A	306	21.972	41.286	42.334	1.00	33.95	8
		MOTA	347	N	GLY			23.228	40.306	43.928	1.00	35.79	7
	10	ATOM	348	CA	GLY			24.445	40.962	43.482		34.59	6
		ATOM	349	Ç	GLY			25.109	40.353	42.259		33.80	6
		ATOM	350	Õ	GLY .			25.489	41.087	41.344		31.59	8
		ATOM	351	N	CYS			25.248	39.024	42.256		31.15	7
			352		CYS			25.899	38.326	42.236		29.04	6
	1.5	ATOM		CA						41.704		27.59	6
	15	ATOM	353	CB	CYS .			26.604	37.089				
		ATOM	354	SG	CYS			25.472	35.770	42.071		30.50	16
		MOTA	355	С	CYS			24.974	37.870	40.062		30.59	6
		ATOM	356	0	CYS			25.458	37.319	39.077		33.77	8
		ATOM	357	N	CYS .			23.664	38.084	40.195		28.46	7
	20	ATOM	358	CA	CYS .			22.739	37.623	39.168		30.10	6
		ATOM	359	CB	CYS			21.311	38.004	39.490		33.43	6
		ATOM	360	SG	CYS .	A	309	20.198	37.299	38.307	1.00	35.20	16
		ATOM	361	С	CYS .	Α	309	23.065	38.123	37.788	1.00	27.72	6
(2)		ATOM	362	0	CYS	A	309	23.212	37.334	36.865	1.00	27,69	8
·D	25	ATOM	363	N	MET .	Α	310	23.157	39.439	37.639	1.00	26.15	7
IU		ATOM	364	CA	MET .	Α	310	23.476	40.016	36.342	1.00	26.06	6
D		ATOM	365	CB	MET .			23.482	41.547	36.419		25.32	6
1.4		ATOM	366	CG	MET .			23.913	42.230	35.109		24.08	6
****		ATOM	367	SD	MET			22.765	41.751	33.762		27.71	16
-	30	ATOM	368	CE	MET			23.650	42.321	32.270		28.50	6
* *	50	ATOM	369	C	MET			24.842	39.527	35.908		25.94	6
5 !		ATOM	370	Õ	MET			25.020	39.076	34.788		28.09	8
		ATOM	371	N	GLU			25.800	39.638	36.826		25.39	7
لدا		ATOM	372	CA	GLU A			27.176	39.234	36.589		27.03	6
	35	ATOM	373		GLU A			27.170	39.303	37.900	1.00		6
٥	33			CB	GLU A					38.668		26.00	6
٠D		ATOM	374	CG				27.842	40.628				
٠Đ		ATOM	375	CD	GLU A			28.726	40.720	39.870		23.95	6
		ATOM	376		GLU			28.891	39.706	40.588		19.72	8
	40	ATOM	377		GLU			29.270	41.818	40.159		26.51	8
	40	ATOM		C	GLU A			27.266	37.827	35.997		27.51	6
		ATOM	379	0	GLU A			27.956	37.620	35.014		29.67	8
		ATOM	380	N	ILE A			26.569	36.866	36.602		26.82	7
		ATOM	381	CA	ILE A			26.593	35.497	36.112		25.71	6
		ATOM	382	CB	ILE A			25.991	34.518	37.123		23.35	6
	45	ATOM	383		ILE A			25.917	33.123	36.533		20.27	6
		ATOM	384	CG1	ILE A	Ą	312	26.837	34.471	38.398	1.00	20.88	6
		ATOM	385	CD1	ILE A	A	312	26.462	33.342	39.341	1.00	18.15	6
		ATOM	386	С	ILE A	A	312	25.871	35.371	34.791	1.00	27.91	6
		ATOM	387	0	ILE A	A	312	26.274	34.593	33.934	1.00	28.96	8
	50	ATOM	388	N	MET A	A	313	24.788	36.130	34.633	1.00	27.66	7
		ATOM	389	CA	MET A	Ą	313	24.013	36.081	33.395	1.00	30.18	6
		ATOM	390	CB	MET A			22.716	36.888	33.508	1.00	36.89	6
		ATOM	391	CG	MET A			21.608	36.198	34.305		37.95	6
		ATOM	392	SD	MET A			19.892	36.817	34.055		42.38	16
	55	ATOM	393	CE	MET A			20.034	38.503	34.740		40.68	6
		ATOM.	394	C	MET A			24.834	36.579	32.222		27.43	6
		ATOM	395	0	MET A			25.116	35.814	31.308		28.61	8
		ATOM	396	N .	SER A			25.209	37.859	32.253		24.88	7
		000	220	• •	· ·	•	J	20.209	555	J J.J	00		•

	5	MOTA	397	CA	SER	Α	314	26.005	38.472	31.197	1.00	27.98	6
		MOTA	398	CB	SER	A	314	26.354	39.914	31.581	1.00	29.64	6
		ATOM	399	OG	SER	Α	314	26.956	39.972	32.858	1.00	43.44	8
		MOTA	400	C	SER	A	314	27.275	37.679	30.851	1.00	22.30	6
		ATOM	401	0	SER			27.675	37.629	29.690		24.18	8
	10	ATOM	402	N	LEU			27.905	37.048	31.845		23.99	7
		ATOM	403	CA	LEU			29.099	36.261	31.563		25.07	6
		ATOM	404	СВ	LEU			29.685	35.593	32.816		19.11	6
		ATOM	405	CG	LEU			30.675	34.479	32.505		20.39	6
		ATOM	406		LEU			31.866	35.040	31.756		18.92	6
	15	ATOM	407		LEU			31.125	33.789	33.765		12.93	6
		ATOM	408	C	LEU			28.700	35.180	30.597		24.53	6
		ATOM	409	0	LEU			29.304	35.036	29.55.6		26.32	8
		ATOM	410	N	ARG			27.678	34.426	30.982		28.18	7
		MOTA	411		ARG			27.151					
	20	ATOM	412	CA					33.312	30.216		27.54	6
	20			CB	ARG			25.915	32.752	30.928		27.39	6
		ATOM	413	CG	ARG			26.188	32.190	32.336		22.00	6
		ATOM	414	CD	ARG			24.934	31.526	32.901		18.78	6
		ATOM	415	NE	ARG			25.245	30.376	33.721		26.57	7
	25	ATOM	416	CZ	ARG			24.341	29.468	34.054		30.81	6
Q	25	ATOM	417	NH1				23.084	29.614	33.639		33.71	7
ΙŲ		MOTA	418		ARG			24.701	28.416	34.776		33.13	7
Œ		ATOM	419	С	ĄRG			26.774	33.660	28.794		28.09	6
ja Vj		ATOM	420	0	ARG			26.737	32.792	27.931		32.41	8
		ATOM	421	N	ALA			26.484	34.936	28.571	1.00	28.36	7
/-J	30	ATOM	422	CA	ALA			26.094	35.411	27.264	1.00	26.64	6
-		ATOM	423	CB	ALA	А	317	25.232	36.666	27.418	1.00	22.93	6
		MOTA	424	C	ALA	Α	317	27.323	35.714	26.417	1.00	28.35	6
L.J		ATOM	425	0	ALA	Α	317	27.398	35.342	25.252	1.00	32.10	8
1.1		ATOM	426	N	ALA	Α	318	28.286	36.396	27.026	1.00	29.12	7
	35	ATOM	427	CA	ALA	Α	318	29.515	36.760	26.350	1.00	27.50	6
: 		ATOM	428	CB	ALA	A	318	30.434	37.452	27.333	1.00	28.39	6
		ATOM	429	С	ALA	A	318	30.181	35.502	25.825	1.00	28.10	6
****		ATOM	430	0	ALA	Α	318	30.600	35.447	24.678	1.00	28.18	8
		ATOM	431	N	VAL	A	319	30.255	34.491	26.700	1.00	29.16	7
	40	ATOM	432	CA	VAL	Α	319	30.880	33.198	26.393	1.00	35.24	6
		ATOM	433	СВ	VAL	Α	319	30.703	32.210	27.547		27.34	6
		ATOM	434		VAL			30.895	32.891	28.858		29.96	6
		ATOM	435		VAL			29.353	31.552	27.482		31.70	6
		ATOM	436	С	VAL			30.215	32.608	25.165		40.01	6
	45	ATOM	437	0	VAL			30.640		24.680		42.70	8
		ATOM	438	N	ARG			29.176	33.284	24.683		38.64	7
		ATOM	439	CA	ARG			28.415	32.822	23.545		38.61	6
		ATOM	440	СВ	ARG			27.031	32.458	24.043		37.26	6
		ATOM	441	CG	ARG			26.863	30.991	24.192		43.12	6
	50	ATOM	442	CD	ARG .			25.637	30.642	25.014		50.79	6
	50	ATOM	443	NE	ARG .								
		ATOM	444	CZ	ARG .			25.258	29.256	24.770		54.71	7
								24.331	28.625	25.501		57.89	6
		ATOM	445		ARG .			23.667	29.291	26.440		49.08	7
	55	ATOM	446		ARG .			23.964	27.385	25.242		59.59	7
	55	ATOM	447	C	ARG .			28.292	33.825	22.405		42.14	6
		ATOM	448	0	ARG .			27.251		21.748		46.30	8
		ATOM	449	N	TYR .			29.352	34.583	22.173		42.04	7
		ATOM	450	CA	TYR :	A	321	29.366	35.555	21.098	1.00	42.70	6

	•	7.004	453	CD	mvn		221	30.083	26 010	21 676	1 00	20 01	6
	5	ATOM	451	СВ	TYR				36.810	21.575		38.01	6
		MOTA	452	CG	TYR			30.601	37.650	20.448		37.94	6
		ATOM	453	CD1	TYR	A	321	29.733	38.296	19.574	1.00	33.85	6
		ATOM	454	CE1	TYR	A	321	30.235	39.037	18.494	1.00	34.49	6
		ATOM	455	CD2	TYR	A	321	31.966	37.743	20.224	1.00	28.03	6
	10	ATOM	456	CE2	TYR	Α	321	32.473	38.475	19.153	1.00	32.69	6
		ATOM	457	CZ	TYR			31.612	39.125	18.276	1.00	35.18	6
		ATOM	458	ОН	TYR			32.107	39.866	17.223		39.48	8
		ATOM	459	C	TYR			30.085	35.005	19.877		45.51	6
								31.261	34.697	19.951		48.02	8
		ATOM	460	0	TYR								
	15	MOTA	461	N	ASP			29.354	34.879	18.773		44.56	7
		ATOM	462	CA	ASP			29.912	34.400	17.502		45.86	6
		ATOM	463	CB	ASP			28.804	33.670	16.736		46.64	6
		ATOM	464	CG	ASP	A	322	29.050	33.608	15.255	1.00	40.00	6
		ATOM	465	OD1	ASP	A	322	30.010	34.256	14.768	1.00	40.00	8
	20	ATOM	466	OD2	ASP	A	322	28.262	32.929	14.536	1.00	40.00	8
		ATOM	467	С	ASP			30.460	35.629	16.755	1.00	45.82	6
		ATOM	468	0	ASP			29.678	36.464	16.271		45.38	8
		ATOM	469	N	PRO			31.800	35.735	16.584		46.53	7
يعدي		ATOM	470	CD	PRO			32.774	34.719	16.991		47.16	6
	25							32.424		15.890		46.63	6
Ġ,	25	ATOM	471	CA	PRO				36.889				
IJ		MOTA	472	СВ	PRO			33.921	36.603	15.936		43.95	6
(3)		ATOM	473	CG	PRO			34.099	35.303	16.582		43.93	6
ļab V		ATOM	474	С	PRO			31.953	37.087	14.453		48.34	6
'مر <u>ا</u>		ATOM	475	0	PRO			31.797	38.210	13.960		50.84	8
j = 4	30	ATOM	476	N	GLU	А	324	31.778	35.970	13.752	1.00	52.39	7
, , ,		ATOM	477	CA	GLU	A	324	31.339	35.968	12.370	1.00	55.85	6
£1		ATOM	478	CB	GLU	A	324	31.035	34.528	11.965	1.00	55.54	6
٦		ATOM	479	CG	GLU	А	324	32.224	33.584	12.104	1.00	40.00	6
l.J		ATOM	480	CD	GLU	А	324	33.432	34.023	11.310	1.00	40.00	6
	35	ATOM	481	OE1				33.350	35.040	10.555		40.00	8
Ü		ATOM	482		GLU			34.506	33.356	11.415		40.00	8
Ü		ATOM	483	C	GLU			30.077	36.798	12.277		54.94	6
Ü		ATOM	484	0	GLU			30.070	37.892	11.730		59.81	8
			485	N	SER			29.009	36.212	12.810		52.95	7
	40	ATOM											6
	40	ATOM	486	CA	SER			27.695	36.812	12.839		50.10	
		ATOM	487	CB	SER			26.701	35.797	13.402		48.23	6
		ATOM	488	OG	SER			27.183	35.239	14.615		48.71	8
		ATOM	489	С	SER			27.651	38.093	13.659		50.61	6
		ATOM	490	0	SER	Α	325	26.885	38.992	13.354	1.00	52.19	8
	45	MOTA	491	N	GLU	Α	326	28.495	38.168	14.687	1.00	45.64	7
		ATOM	492	CA	GLU	Α	326	28.567	39.341	15.546	1.00	43.35	6
		ATOM	493	СВ	GLU	А	326	28.830	40.608	14.711	1.00	42.74	6
		ATOM	494	CG	GLU			30.148	40.606	13.945		50.32	6
		ATOM	495	CD	GLU			30.451	41.925	13.313		56.34	6
	50	ATOM	496		GLU			31.509	42.046	12.649		59.31	8
	50	ATOM	497		GLU			29.656	42.890	13.452		55.74	8
		ATOM	498	С	GLU			27.288	39.526	16.340		40.23	6
		ATOM	499	0	GLU			26.695	40.603	16.340		40.44	8
	<u>ہ</u> ہے	ATOM	500	N	THR			26.888	38.474	17.051		35.90	7
	55	ATOM	501	CA	THR			25.663	38.506	17.860		37.29	6
		ATOM	502	CB	THR			24.466	38.057	17.024		37.63	6
		ATOM	503	OG1	THR			24.661	36.709	16.580		38.12	8
		ATOM .	504	CG2	THR	A	327	24.269	38.965	15.810	1.00	39.90	6

	5	ATOM	505	С	THR	A	327	25.767	37.562	19.038		39.49	. 6
		ATOM	506	0	THR	A	327	26.284	36.458	18.903		40.50	8
		MOTA	507	N	LEU	A	328	25.250	37.987	20.184	1.00	36.64	7
		ATOM	508	CA	LEU	Α	328	25.264	37.141	21.381	1.00	37.73	6
		ATOM	509	CB	LEU	A	328	25.148	37.999	22.650	1.00	37.78	6
	10	MOTA	510	CG	LEU	A	328	26.102	39.150	22.843	1.00	36,26	6
		ATOM	511	CD1	LEU	A	328	26.066	39.623	24.272	1.00	36.56	6
		ATOM	512	CD2	LEU	A	328	27.481	38.688	22.500	1.00	39.85	6
		ATOM	513	С	LEU	A	328	24.063	36.220	21.244	1.00	37.27	6
		ATOM	514	0		-	328	23.306	36.337	20.279	1.00	34.96	8
	15	ATOM	515	N	THR	Α	329	23.891	35.317	22.205	1.00	39.73	7
		ATOM	516	CA			329	22.785	34.376	22.180	1.00	40.81	6
		ATOM	517	СВ			329	23.241	32.991	21,699	1.00	42.67	6
		ATOM	518	OG1			329	23.879	33.103	20.421		42.52	8
		ATOM	519	CG2			329	22.026	32.057	21.589		43.52	6
	20	ATOM	520	C			329	22.168	34.245	23.548		44.31	6
		ATOM	521	Ō			329	22.526	33.370	24.320		43.72	8
		ATOM	522	N			330	21.237	35.149	23.830		44.62	7
		ATOM	523	CA			330	20.532	35.170	25.111		45.09	6
ü		ATOM	524	СВ			330	19.677	36.444	25.195		44.66	6
Ü	25	ATOM	525	CG			330	20.436	37.750	25.259		51.06	6
IU.	23	ATOM	526		LEU			21.405	37.730	24.104		48.58	6
IÕ		ATOM	527		LEU			19.466	38.909	25.238		45.18	6
j		ATOM	528	C			330	19.656	33.919	25.301		48.06	. 6
		ATOM	529	0			330	19.049	33.422	24.359		49.33	8
4	30	ATOM	530	N	ASN			19.618	33.431	26.540		52.20	7
أيوا	30	ATOM	531	CA	ASN			18.842	32.256	26.913		54.41	6
11		ATOM	532	CB			331	17.361	32.628	27.009		54.94	6
		ATOM	533	CG	ASN			16.724	32.112	28.269		60.35	6
LJ.		ATOM	534		ASN			17.124	32.505	29.383		61.84	8
Įμ	35	ATOM	535		ASN			15.750	31.238	28.117		65.92	7
	33	ATOM	536	C	ASN			19.016	31.238	25.934		58.00	6
ā		ATOM	537	0	ASN			18.243	30.157	25.934	1.00		8
ij		ATOM	538	N			332	20.063	31.196	25.114		58.45	7
		ATOM	539	CA	GLY			20.341	30.161	24.131		58.55	6
	40	ATOM	540	C	GLY			19.316	30.016	23.021		59.79	6
	70	ATOM	541	0	GLY			19.316	29.094	22.213		61.32	8
		ATOM	542	N	GLU			18.346	30.929	22.213		60.28	7
			543	CA	GLU			17.294	30.883	21.985		59.13	6
		ATOM		CB	GLU			15.919	30.875	22.662		62.40	6.
	45	ATOM	544	CG	GLU			15.667	29.750	23.658		75.69	6
	43	ATOM	545						29.865			80.41	
		ATOM	546	CD	GLU			14.341		24.346			6
		ATOM	547		GLU			14.052	30.932	24.945		79.98	8
		ATOM	548		GLU			13.549	28.884	24.329		83.81	8
	50	ATOM	549	С	GLU			17.356	32.090	21.073		57.18	6
	50	ATOM	550	0	GLU			17.239	31.969	19.852		57.50	8
		ATOM	551	N	MET			17.512	33.258	21.696		55.20	7
		ATOM	552	CA	MET			17.561	34.529	20.980		50.85	6
		ATOM	553	СВ	MET			16.751	35.556	21.763		48.70	6
	5.6	ATOM	554	CG	MET			16.859	36.947	21.212		45.39	6
	55	ATOM	555	SD	MET			15.881	38.186	22.127		44.56	16
		ATOM	556	CE	MET			14.229	37.371	22.113		45.25	6
		ATOM	557	С	MET			18.956	35.087	20.713		51.59	6
		ATOM	558	0	MET	A	334	19.739	35.268	21.633	1.00	52.52	8

	5	ATOM	559	N	ALA	A	335	19.234	35.371	19.444	1.00	51.00	7
		ATOM	560	CA	ALA	A	335	20.520	35.932	19.039	1,00	48.98	6
		ATOM	561	СВ	ALA	Α	335	20.997	35.254	17.768	1.00	47.86	6
		ATOM	562	С	ALA	A	335	20.342	37.420	18.805			6
		ATOM	563	0	ALA			19.594	37.830	17.919		51.61	8
	10	ATOM	564	N			336	21.024	38.232	19.612		46.62	7
	10	ATOM	565	CA	VAL			20.910	39.699	19.502		42.35	6
			566	CB			336	20.517	40.325	20.840	1.00	42.41	6
		ATOM											
		ATOM	567	CG1				19.242	39.691	21.361			6
		ATOM	568	CG2	VAL			21.639	40.211	21.852		40.32	6
	15	MOTA	569	С			336	22.204	40.321	19.036		45.33	6
		MOTA	570	0			336	23.263	39.691	19.025		47.42	8
		ATOM	571	N			337	22.090	41.590	18.668		41.60	7
		ATOM	572	CA	THR			23.230	42.377	18.175		39.69	6
		MOTA	573	CB	THR			22.882	43.061	16.852		41.35	6
	20	ATOM	574	OG1	THR	Α	337	21.987	44.157	17.080	1.00	49.35	8
		ATOM	575	CG2	THR	Α	337	22.216	42.067	15.904	1.00	40.38	6
		ATOM	576	С	THR	A	337	23.588	43.481	19.159	1.00	37.88	6
		ATOM	577	0	THR	A	337	22.734	43.989	19.892	1.00	34.06	8
		ATOM	578	N	ARG	Α	338	24.865	43.849	19.138	1.00	37.61	7
Ū	25	ATOM	579	CA	ARG			25.388	44.919	19.984	1.00	38.68	6
ĪŪ		ATOM	580	СВ	ARG			26.669	45.479	19.351	1.00	35.95	б
Ü		ATOM	581	CG	ARG			27.250	46.713	20.038	1.00	38.83	6
<u></u>		ATOM	582	CD	ARG			28.443	47.254	19.247	1.00	35.88	6
أنوا		ATOM	583	NE	ARG			29.559	46.320	19.175	1.00	37.42 ⁻	7
-	30	ATOM	584	CZ	ARG			30.449	46.122	20.145	1.00	30.20	6
1	30		585		ARG			30.338	46.791	21.295		27.98	7
21		ATOM										27.40	7
		ATOM	586		ARG			31.433	45.240	19.954			
ليا		MOTA	587	C	ARG			24.333	46.010	20.085		38.09	6
لنا	2.5	MOTA	588	0	ARG			23.894	46.397	21.169		34.12	8
لبا ت	35	ATOM	589	N	GLY			23.915	46.496	18.922		41.25	7
Ď		MOTA	590	CA	GLY			22.918	47.547	18.890		41.35	6
ū		MOTA	591	С	GLY			21.692	47.140	19.672		41.23	6
-		ATOM	592	0	GLY			21.445	47.671	20.750	1.00	38.30	8
		MOTA	593	N	GLN			20.924	46.203	19.105	1.00	38.58	7
	40	ATOM	594	CA	GLN			19.701	45.700	19.729		40.79	6
		ATOM	595	CB	GLN			19.436	44.260	19.253		40.82	6
		ATOM	596	CG	GLN	A	340	19.087	44.146	17.767		41.10	6
		ATOM	597	CD	GLN	A	340	18.876	42.705	17.305	1.00	48.84	6
		ATOM	598	OE1	GLN	A	340	19.826	41.888	17.309	1.00	50.53	8
	45	ATOM	599	NE2	GLN	A	340	17.650	42.393	16.907	1.00	54.25	7
		ATOM	600	C	GLN	Α	340	19.779	45.750	21.263	1.00	41.50	6
		ATOM	601	0	GLN	Α	340	18.998	46.444	21.923	1.00	42.72	8
		ATOM	602	N	LEU	Α	341	20.758	45.026	21.806	1.00	42.00	7
		ATOM	603	CA	LEU	Α	341	20.952	44.947	23.243	1.00	38.10	6
	50	ATOM	604	СВ	LEU			22.209	44.145	23.575		36.66	6
		ATOM	605	CG	LEU			22.361	43.804	25.029		39.94	6
		ATOM	606	•	LEU			21.219	42.884	25.410		34.98	6
		ATOM	607		LEU			23.685	43.128	25.284		40.95	6
		ATOM	608	C	LEU			21.072	46.321	23.860		36.37	6
	55	ATOM	609	0	LEU			20.484	46.588	24.892		37.89	8
	J J	ATOM	610	N	LYS			21.848	47.184	23.209		33.29	7
		ATOM	611		LYS			22.089	48.546	23.209		35.17	6
		ATOM	612	CA	LYS			23.057	49.242			34.97	6
		WI ON	012	СВ	піэ	~	J42	23.031	77.646	22.721	1.00	J4.7/	O

	5	MOTA	613	CG	LYS	Α	342	23.655	50.536	23.240	1.00	40.00	6
		ATOM	614	CD	LYS	A	342	24.673	51.109	22.245	1.00	34.48	6
		ATOM	615	CE	LYS	Α	342	25.514	52.229	22.873	1.00	37.54	6
		ATOM	616	NZ	LYS			26.655	52.634	21.987	1.00	42.32	7
		ATOM	617	С	LYS			20.796	49.349	23.774		38.29	8
	10	ATOM	618	Ō	LYS			20.345	49.711	24.861		36.23	8
	10	ATOM	619	N	ASN			20.223	49.622	22.603		39.25	7
			620		ASN			18.993	50.385	22.485		40.19	6
		ATOM		CA									6
		ATOM	621	CB	ASN			18.521	50.373	21.033		37.96	
	1.5	ATOM	622	CG	ASN			19.664	50.550	20.052		39.22	6
	15	ATOM	623	OD1	ASN			20.428	51.537	20.125		42.37	8
		ATOM	624	ND2				19.773	49.612	19.125		42.19	7
		ATOM	625	С	ASN			17.928	49.748	23.375		40.12	6
		ATOM	626	0	ASN	Α	343	17.010	50.417	23.859		36.01	8
		ATOM	627	N	GLY	Α	344	18.073	48.433	23.568	1.00	40.95	7
	20	ATOM	628	CA	GLY	Α	344	17.152	47.670	24.394	1.00	39.25	6
		ATOM	629	С	GLY	Α	344	17.039	48.092	25.842	1.00	38.26	6
		ATOM	630	0	GLY	Α	344	16.072	47.724	26.512	1.00	35.69	8
		ATOM	631	N	GLY	Α	345	18.017	48.857	26.329	1.00	35.89	7
		ATOM	632	CA	GLY			17.964	49.301	27.706	1.00	34.00	6
Ü	25	ATOM	633	С	GLY			19.273	49.199	28.443		38.64	6
เป็		ATOM	634	ō	GLY			19.469	49.888	29.441		38.14	. 8
ij		ATOM	635	N	LEU			20.170	48.337	27.973		39.52	7
		ATOM	636	CA	LEU			21.444	48.180	28.649		36.05	6
٠.٠		ATOM	637	CB	LEU			22.124	46.876	28.209		35.72	. 6
- -	30									28.501			6
, ']	30	ATOM	638	CG	LEU			21.355	45.617			34.89	
		ATOM	639	CD1	LEU			22.295	44.413	28.422		44.09	6
		ATOM	640	CD2				20.786	45.721	29.902		34.84	6
لدا		ATOM	641	С	LEU			22.358	49.361	28.396		33.52	6
i.i		ATOM	642	0	LEU			23.267	49.653	29.178		35.58	8
	35	MOTA	643	N	GLY			22.087	50.056	27.295		30.47	7
:#/ :71		ATOM	644	CA	GLY			22.909	51.192	26.931		33.01	6
Q.		ATOM	645	С	GLY	A	347	24.360	50.768	26.747	1.00	30.72	6
182		ATOM	646	0	GLY	Α	347	24.669	49.775	26.082		30.89	8
		ATOM	647	N	VAL	Α	348 .	25.244	51.556	27.355	1.00	31.30	7
	40	ATOM	648	CA	VAL	A	348	26.671	51.325	27.286	1.00	31.27	6
		ATOM	649	CB	VAL	Α	348	27.441	52.294	28.184	1.00	31.66	6
		ATOM	650	CG1	VAL	Α	348	27.067	52.107	29.631	1.00	20.19	6
		ATOM	651	CG2	VAL	Α	348	28.931	52.138	27.986	1.00	24.77	6
		ATOM	652	С	VAL			27.063	49.892	27.678		33.84	6
	45	ATOM	653	0	VAL			28.095	49.392	27.225		29.99	8
		ATOM	654	N	VAL			26.253	49.227	28.514		33.31	7
		ATOM	655	CA	VAL			26.568	47.881	28.906		32.23	6
		ATOM	656	СВ	VAL			25.581	47.259	29.858		32.59	6
			657		VAL			25.865	45.795	29.985		33.68	6
	50	ATOM										32.30	
	30	ATOM	658		VAL			25.687	47.899	31.213			6
		ATOM	659	C	VAL			26.706	46.985	27.726		34.91	6
		ATOM	660	0	VAL			27.583	46.136	27.735		33.73	8
		ATOM	661	N	SER			25.875	47.134	26.702		32.81	7
	- -	ATOM	662	CA	SER			26.001	46.252	25.556		30.10	6
	55	ATOM	663	CB	SER			25.119	46.665	24.411		24.95	6
		ATOM	664	OG	SER			25.209	45.675	23.394		23.16	8
		ATOM	665	С	SER			27.445	46.257	25.129		31.59	6
		ATOM	666	0	SER	Α	350	28.116	45.244	25.284	1.00	37.62	8

	5	MOTA	667	N .	ASP .	A	351	27.945	47.367	24.591	1.00	28.60	7
		ATOM	668	CA	ASP .	A	351	29.351	47.437	24.183	1.00	29.82	6
		ATOM	669	СВ	ASP			29.808	48.891	24.105	1.00	27.49	6
		MOTA	670	CG	ASP			28.875	49.744	23.303		30.22	6
			671		ASP			28.055	50.483	23.909		32.61	8
	10	MOTA											
	10	MOTA	672	OD2				28.942	49.714	22.044		30.02	8
		MOTA	673	С	ASP .			30.173	46.653	25.231		30.63	6
		ATOM.	674	0	ASP .	A	351	30.981	45.792	24.903	1.00	29.54	8
		ATOM	675	N	ALA .	A	352	29.939	46.949	26.503	1.00	25.33	7
		MOTA	676	CA	ALA .	A	352	30.623	46.280	27.602	1.00	28.59	6
	15	ATOM	677	CB	ALA .			30.072	46.799	28.922	1.00	20.95	6
		ATOM	678	C.	ALA			30.492	44.756	27.527		29.69	6
		ATOM	679	ō	ALA			31.481	44.054	27.587		30.36	8
		ATOM	680	N	ILE			29.260	44.260	27.413		27.63	7
											-		
		ATOM	681	CA	ILE .			29.003	42.832	27.326		27.55	6
	20	MOTA	682	CB	ILE .			27.512	42.528	27.429		28.04	6
		ATOM	683	CG2	ILE A			27.269	41.042	27.289		23.68	6
		ATOM	684	CG1	ILE A	A	353	26.955	42.965	28.789	1.00	27.33	6
		ATOM	685	CD1	ILE 2	A	353	25.452	42.688	28.944	1.00	26.23	6
		ATOM	686	С	ILE A	A	353	29.534	42.207	26.054	1.00	30.88	6
O	25	ATOM	687	0	ILE A	A	353	30.007	41.076	26.068	1.00	31.22	8
IU		ATOM	688	N	PHE :	Α	354	29.426	42.917	24.939	1.00	29.86	7
D		ATOM	689	CA	PHE			29.922	42.369	23.686		31.08	6
ط		ATOM	690	СВ	PHE			29.371	43.146	22.487		28.80	6
أس		ATOM	691	CG	PHE			28.029	42.643	21.988		28.80	6
 =	30		692					26.872	42.842	22.724		30.96	6
١	30	ATOM		CD1									
E:		ATOM	693	CD2	PHE			27.950	41.953	20.783		29.45	6
		ATOM	694	CE1	PHE I			25.657	42.360	22.250		27.12	6
لبا		ATOM	695	CE2	PHE 2			26.738	41.470	20.305		25.19	6
		ATOM	696	CZ	PHE A			25.590	41.672	21.038		28.09	6
	35	ATOM	697	С	PHE 2	A	354	31.444	42.399	23.682	1.00	29.17	6
Ü		ATOM	698	0	PHE A	A	354	32.087	41.389	23.398	1.00	32.62	8
Ď		ATOM	699	N	ASP A	A	355	32.013	43.569	23.980	1.00	23.86	7
'#J		ATOM	700	CA	ASP A	A	355	33.466	43.739	24.030	1,00	25.34	6
		ATOM	701	СВ	ASP A	A	355	33.820	45.053	24.737	1.00	21.41	6
	40	ATOM	702	CG	ASP Z	A	355	33.841	46.226	23.809	1.00	32.08	6
		ATOM	703		ASP A			32.979	46.322	22.902		33.58	8
		ATOM	704		ASP A			34.711	47.117	23.968		33.20	8
		ATOM	705	C	ASP A			34.074	42.559	24.781		27.86	6
	45	ATOM	706	0	ASP A			35.131	42.053	24.410		32.42	8 .
	45	ATOM	707	N ·	LEU A			33.387	42.128	25.843		26.84	7
		ATOM	708	CA	LEU A			33.845	40.993	26.642		28.66	6
		ATOM	709	CB	LEU A			32.893	40.747	27.825		25.37	6
		ATOM	710	CG	LEU A	A	356	33.235	39.608	28.755	1.00	27.61	6
		ATOM	711	CD1	LEU A	A	356	34.538	39.917	29.451	1.00	25.43	6
	50	ATOM	712	CD2	LEU A	Ą	356	32.149	39.414	29.765	1.00	27.49	6
		ATOM	713	С	LEU A	Ą	356	33.849	39.779	25.723	1.00	30.44	6
			714	0	LEU A			34.884	39.160	25.470		31.55	8
		ATOM	715	N	GLY A			32.661	39.451	25.218		32.69	7
		ATOM	716	CA	GLY A			32.511	38.304	24.338		29.87	6
	55	ATOM	717	C	GLY A			33.653	38.157	23.359		33.12	6
	55												
		ATOM	718	0	GLY A			34.302	37.110	23.323		29.41	8
		ATOM	719	N	MET A			33.876	39.206	22.564		33.31	7
		ATOM	720	CA	MET A	4	J	34.949	39.206	21.580	1.00	35.87	6

	5	ATOM	721	CB	MET	A	358	35.143	40.606	21.009	1.00	34.56	6
		MOTA	722	CG	MET	A	358	33.949	41.145	20.290	1.00	46.43	6
		MOTA	723	SD	MET	A	358	34.207	42.776	19.514		42.13	16
		MOTA	724	CE	MET			34.507	43.855	20.994		44.29	6
		MOTA	725	С	MET			36.256	38.762	22.230		33.26	6
	10	MOTA	726	0	MET			36,894	37.807	21.795	1.00	36.39	8
		ATOM	727	N	SER	A	359	36.637	39.491	23.281	1.00	33.31	7
		ATOM	728	CA	SER	A	359	37.860	39.226	24.019	1,00	34.39	6
		MOTA	729	CB	SER	A	359	37.869	40.067	25.295	1.00	30.84	6
		MOTA	730	OG	SER	A	359	39.135	40.008	25.930	1.00	47.14	8
	15	MOTA	731	С	SER	A	359	37.984	37.748	24.357	1.00	36.43	6
		ATOM	732	0	SER	Α	359	38.900	37.078	23.896	1.00	35.46	8
		ATOM	733	N	LEU	Α	360	37.046	37.264	25.166	1.00	36.74	7
		MOTA	734	CA	LEU	A	360	37.017	35.875	25.604	1.00	35.44	6
		MOTA	735	CB	LEU	A	360	35.708	35.579	26.336	1.00	34.16	6
	20	ATOM	736	CG	LEU	A	360	35.471	36.290	27.644	1.00	34.59	6
		ATOM	737	CD1	LEU	A	360	34.225	35.765	28.312	1.00	33.53	6
		ATOM	738	CD2	LEU	A	360	36.658	36.052	28.541	1.00	31.69	6
		ATOM	739	С	LEU	Α	360	37.203	34.862	24.500	1.00	38.72	6
		ATOM	740	0	LEU	Α	360	37.820	33.828	24.728	1.00	38.29	8
Ü	25	ATOM	741	N	SER	Α	361	36.635	35.147	23.328	1.00	40.96	7
IJ		ATOM	742	CA	SER	A	361	36.777	34.262	22.186	1.00	45.67	6
Ø		ATOM	743	CB	SER	A	361	36.518	35.045	20.904	1.00	46.45	6
int.		ATOM	744	OG	SER	A	361	35.210	35.598	20.906	1.00	51.81	8
, d		MOTA	745	C	SER	Α	361	38.166	33.627	22.145	1.00	44.49	6
	30	ATOM	746	0	SER	A	361	38.347	32.538	21.625	1.00	46.67	8
,e¶		MOTA	747	N	SER	A	362	39.134	34.348	22.703	1.00	41.44	7
E)		ATOM	748	CA	SER	A	362	40.525	33.918	22.790	1.00	42.13	6
		ATOM	749	CB	SER	A	362	41.408	35.131	23.066	1.00	42.61	6
ļ,		ATOM	750	OG	SER	A	362	41.219	36.136	22.076	1.00	51.87	8
	35	ATOM	751	С	SER			40.798	32.870	23.876		38.41	6
Ü		MOTA	752	0	SER	A	362	41.553	31.938	23.641	1.00	38.01	8
Ö		ATOM	753	N	PHE			40.198	33.039	25.058		34.55	7
` =		ATOM	754	CA	PHE			40.417	32.126	26.174		32.96	6
•		ATOM	755	CB	PHE			39.832	32.718	27.447		31.99	6
	40	ATOM	756	CG	PHE			40.448	34.036	27.840		29.97	6
		ATOM	757		PHE			40.102	34.650	29.020		30.61	6
		ATOM	758		PHE			41.379	34.646	27.014		32.02	6
		ATOM	759		PHE			40.685	35.856	29.391		33.67	6
		ATOM	760		PHE			41.959	35.843	27.377		30.91	6
	45	ATOM	761	CZ	PHE			41.615	36.456	28.558		29.33	6
		ATOM	762	С	PHE			39.883	30.716	25.967		30.52	6
		ATOM	763	0	PHE			40.436	29.766	26.526		32.19	8
		ATOM	764	N	ASN			38.817	30.570	25.175		33.51	7
		ATOM	765	CA	ASN			38.239	29.264	24.918		38.03	6
	50	ATOM	766	СВ	ASN			39.240	28.404	24.139		42.32	6
		ATOM	767	CG	ASN			39.696	29.065	22.861		53.11	6
		ATOM	768		ASN			38.874	29.330	21.954		59.51	8
		ATOM	769		ASN			40.986	29.330	22.772		55.95	7
	55	ATOM	770	С	ASN			37.916	28.572	26.235		31.89	6
	55	ATOM	771	0	ASN			38.324	27.428	26.457		30.28	8
		ATOM	772	N	LEU			37.176	29.271	27.094		27.62	7
		ATOM	773	CA	LEU			36.806	28.743	28.406		29.36	6
		MOTA	774	CB	LEU	A	365	36.195	29.866	29.237	1.00	27.54	6

	5	ATOM	775	CG	LEU	Α	365	36.990	31.150	29.185	1.00	38.91	6
		ATOM	776	CD1	LEU	A	365	36.316	32.216	30.036	1.00	34.47	6
		ATOM	777	CD2				38.406	30.883	29.663	1.00	34.24	6
		ATOM	778	С	LEU			35.830	27.590	28.262	1.00	26.23	6
		ATOM	779	Ō	LEU			34.890	27.649	27.472		27.06	8
	10	ATOM	780	N	ASP			36.083	26.528	29.021		25.23	7
		ATOM	781	CA	ASP			35.213	25.358	28.988		26.07	6
		ATOM	782	СВ	ASP			36.027	24.049	29.033		29.68	6
		ATOM	783	CG	ASP			36.799	23.874	30.303	_	35.74	6
		ATOM	784	OD1				36.285	24.177	31.402		36.78	8
	15			-	ASP			37.959		30.240		41.23	8
	13	ATOM	785						23.386			27.70	6
		ATOM	786	С	ASP			34.278	25.434	30.181			
		ATOM	787	0	ASP			34.587	26.097	31.173		31.94	8
		MOTA	788	N	ASP			33.141	24.743	30.066		29.18	7
		ATOM	789	CA	ASP			32.120	24.679	31.120		32.72	6
	20	ATOM	790	CB	ASP			31.472	23.284	31.147		38.04	6
		MOTA	791	CG	ASP			30.806	22.924	29.854		42.43	6
		ATOM	792		ASP			29.877	23.650	29.409		35.95	8
		MOTA	793	OD2	ASP			31.186	21.884	29.250		51.42	8
		ATOM	794	C	ASP			32.754	24.969	32.482		33.71	б
١Ď	25	ATOM	795	0	ASP	Α	367	32.484	26.000	33.098		38.30	8
IJ		MOTA	796	N	THR	A	368	33.602	24.032	32.919		31.06	7
D		ATOM	797	CA	THR	Α	368	34.329	24.124	34.181	1.00	26.28	• 6
<u>ئد</u>		MOTA	798	CB	THR	Α	368	35.559	23.222	34.141	1.00	27.30	6
, .		ATOM	799	OG1	THR	A	368	35.161	21.871	33.885	1.00	33.42	8
<u>-</u>	30	MOTA	800	CG2	THR	Α	368	36.323	23.303	35.454	1.00	25.16	6
'~		ATOM	801	С	THR	А	368	34.764	25.557	34.479	1.00	21.13	6
#:		ATOM	802	0	THR	Α	368	34.408	26.153	35.503	1.00	23.17	8
		MOTA	803	N	GLU	Α	369	35.545	26.092	33.551	1.00	21.32	7
لِيرا		ATOM	804	CA	GLU	Α	369	36.065	27.435	33.661	1.00	28.00	6
	35	MOTA	805	CB	GLU	Α	369	36.960	27.707	32.453	1,00	32.79	6
Ē		ATOM	806	CG	GLU	Α	369	38.089	26.663	32.346	1.00	36.29	· 6
ij		ATOM	807	CD	GLU	A	369	38.906	26.747	31.110	1.00	41.03	6
Û		ATOM	808	OE1				38.337	26.744	29.994	1.00	42.05	8
		ATOM	809		GLU			40.158	26.795	31.218		42.03	8
	40	ATOM	810	С	GLU			34.953	28.471	33.821		25.57	6
		ATOM	811	0	GLU			34.987	29.256	34.760		20.56	8
		ATOM	812	N	VAL			33.967	28.463	32.921		25.39	7
		ATOM	813	CA	VAL			32.849	29.396	33.029		25.99	6
		ATOM	814	СВ	VAL			31.763	29.131	31.987		26.15	6
	45	ATOM	815		VAL			30.609	30.093	32.183		27.65	6
	45	ATOM	816		VAL			32.306	29.251	30.592		17.70	6
		ATOM	817	C	VAL			32.245	29.209	34.412		26.49	6
		ATOM	818	0	VAL			32.012	30.170	35,147		28.16	8
		ATOM	819		ALA			31.988	27.947	34.739		21.01	7
	50			N									6
	30	ATOM	820	CA	ALA			31.393	27.554	36.011		19.57	
		ATOM	821	CB	ALA			31.441	26.039	36.145		18.62	6
		ATOM	822	С	ALA			32.116	28.211	37.177		23.48	6
		ATOM	823	0	ALA			31.531	28.989	37.931		32.67	8
	5.5	ATOM	824	N	LEU			33.401	27.893	37.305		22.89	7
	55	MOTA	825	CA	LEU			34.217	28.447	38.369		23.28	6
		MOTA	826	CB	LEU			35.675	27.996	38.178		27.76	6
		MOTA	827	CG	LEU			35.943	26.524	38.415		21.18	6
		ATOM	828	CD1	LEU	A	372	37.356	26.171	38.049	1.00	27.64	6

	5	MOTA	829	CD2	LEU	A	372 .	35.675	26.204	39.880	1.00	20.90	6
		ATOM	830	C	LEU	A	372	34.098	29.966	38.396	1.00	21.34	6
		MOTA	831	0	LEU	A	372	33.828	30.572	39.439	1.00	23.16	8
		MOTA	832	N	LEU	A	373	34.288	30.561	37.223	1.00	24.42	7
		ATOM	833	CA	LEU	A	373	34.214	32.007	37.074	1.00	23.78	6
	10	ATOM	834	CB	LEU	Α	373	34.296	32.360	35.575	1.00	22.18	6
		ATOM	835	CG	LEU	A	373	34.784	33.726	35.165	1.00	31.52	6
		ATOM	836	CD1	LEU	Α	373	36.000	34.084	35.962	1.00	31.93	6
		MOTA	837	CD2	LEU	A	373	35.103	33.720	33.693	1.00	30.24	6
		ATOM	838	C	LEU	A	373	32.904	32.480	37.720	1.00	25.69	6
	15	ATOM	839	0	LEU	A	373	32.895	33.410	38.532	1.00	30.13	8
		ATOM	840	N	GLN	A	374	31.814	31.800	37.368	1.00	26.24	7
		ATOM	841	CA	GLN	A	374	30.487	32.104	37.896	1.00	21.60	6
		ATOM	842	СВ	GLN	A	374	29.454	31.121	37.335	1.00	24.57	6
		ATOM	843	CG	GLN			29.310	31.145	35.821	1.00		6
	20	ATOM	844	CD	GLN			28.224	30.201	35.331		22.86	6
		ATOM	845	OE1	GLN			28.037	30.042	34.123		24.07	8
		ATOM	846	NE2	GLN			27.515	29.590	36.249		25.59	7
		ATOM	847	C	GLN			30.421	32.039	39.422		20.66	6
(3		ATOM	848	Ō	GLN			29.717	32.832	40.048		24.47	8
Ō	25	ATOM	849	N	ALA			31.136	31.074	40.004		16.26	7
īŪ		ATOM	850	CA	ALA			31.155	30.889	41.445		17.16	6
Ü		ATOM	851	СВ	ALA			31.805	29.568	41.780		19.53	6
14	•	ATOM	852	C	ALA			31.907	32.025	42.108		25.13.	6
· J		ATOM	853	Ō	ALA			31.397	32.646	43.034		23.81	8
14	30	ATOM	854	N	VAL			33.122	32.277	41.611		24.57	7
		ATOM	855	CA	VAL			33.959	33.354	42.118		25.80	6
Ħ		ATOM	856	СВ	VAL			35.101	33.658	41.164	1.00		6
		ATOM	857	CG1	VAL			35.926	34.812	41.697		23.20	6
Į.Ų		ATOM	858	CG2	VAL			35.959	32.429	40.952	1.00	19.08	6
	35	ATOM	859	С	VAL			33.107	34.599	42.312	1.00		6
		ATOM	860		VAL			33.297	35.364	43.251	1.00		8
Ů,		ATOM	861	N ·	LEU			32.159	34.781	41.399		23.09	7
Ü		ATOM	862	CA	LEU			31.242	35.915	41.423		22.86	6
		ATOM	863	СВ	LEU			30.540	36.031	40.061		18.50	6
	40	ATOM	864	CG	LEU			31.424	36.368	38.885		22.65	6
		ATOM	865		LEU			30.689	36.227	37.601		16.70	6
		ATOM	866		LEU			31.916	37.776	39.051		19.58	6
		ATOM	867	C	LEU			30.228	35.719	42.543		26.14	6
		ATOM	868	0	LEU			30.131	36.532	43.452		20.62	8
	45	ATOM	869	N	LEU			29.483	34.614	42.468		28.99	7
		ATOM	870	CA	LEU			28.469	34.303	43.475		28.87	6
		ATOM	871	СВ	LEU			28.053	32.826	43.397		26.89	6
		ATOM	872	CG	LEU			27.110	32.344	44.472		28.83	6
		ATOM	873	CD1				25.915	33.252	44.525		27.97	6
	50	ATOM	874	CD2				26.693	30.928	44.205		27.69	6
		ATOM	875	C	LEU			28.992	34.617	44.853		31.09	6
		ATOM	876	0	LEU			28.399	35.421	45.573		31.77	8
		ATOM	877	N	MET			30.118	33.991	45.189		31.44	7
		ATOM	878	CA	MET			30.736	34.141	46.494		32.62	6
	55	ATOM	879	СВ	MET			31.690	32.960	46.744		31.45	6
		ATOM	880	CG	MET			30.984	31.595	46.792		38.75	6
		ATOM	881	SD	MET			29.741	31.626	48.107		41.27	16
		ATOM	882	CE	MET			28.896	30.036	47.851		35.68	6
												20.00	•

	5	ATOM	883	С	MET	Α	379	31.485	35.448	46.727	1.00	33.72	6
		ATOM	884	0	MET	A	379	32.567	35.450	47.305	1.00	36.29	8
		ATOM	885	N			380	30.889	36.555	46.315		34.49	7
		ATOM	886	CA			380	31.498	37.853	46.550		33.97	6
		ATOM	887	CB			380	30.921	38.890	45.576		31.24	6
	10	ATOM	888	OG			380	31.205	38.543	44.230		39.42	8
		ATOM	889	C	SER	A	380	31.179	38.239	47.992	1.00	39.69	6
		MOTA	890	0	SER	A	380	30.029	38.446	48.357	1.00	44.64	8
		ATOM	891	N	SER	A	381	32.214	38.313	48.812	1.00	41.04	7
		ATOM	892	CA	SER	Α	381	32.060	38.640	50.216	1.00	44.91	6
	15	ATOM	893	СВ			381	33.324	38.234	50.951		44.50	6
		ATOM	894	OG			381	34.431	39.002	50.510		45.42	8
		ATOM	895	C			381	31.795	40.106	50.499		44,59	
													6
		ATOM	896	0			381	31.476	40.470	51.618		49.32	8
		ATOM	897	N			382	31.939	40.942	49.486		43.75	7
	20	MOTA	898	CA			382	31.744	42.362	49.641	1,00	43.93	6
		MOTA	899	CB	ASP	A	382	32.673	43.111	48.677	1.00	48.39	6
		ATOM	900	CG	ASP	Α	382	32.572	42.624	47.263	1.00	53,23	6
		ATOM	901	OD1	ASP	Α	382	32.705	41.400	47.034	1.00	56.97	8
		ATOM	902		ASP			32.358	43.454	46.333		58.91	8
ō	25	ATOM	903	C			382	30.314	42.885	49.507		41.09	6
ľŪ	440	ATOM	904	Ö	ASP			30.048	44.036	49.845		40.93	8
ίĎ			905				383						
ļ _{ab}		ATOM		N				29.397	42.049	49.034		42.63	7
\d		ATOM	906	CA	ARG			28.036	42,485	48.876		43.32	6
<u>.</u>		MOTA	907	CB			383	27.138	41.332	48.443		42.31	6
,4 [†]	30	MOTA	908	CG	ARG			27.651	40.399	47.352	1.00	40.83	6
		MOTA	909	CD	ARG	Α	383	27.586	40.954	45.925	1.00	38.09	6
8! 1000		ATOM	910	NE	ARG	Α	383	27.768	39.878	44.975	1.00	37.33	7
		ATOM	911	CZ	ARG	Α	383	28.037	40.058	43.693	1.00	38.35	6
į.j	,	ATOM	912	NH1	ARG	Α	383	28.142	41.292	43.198		33.70	7
IJ	35	ATOM	913		ARG			28.194	38.992	42.918		35.46	7
		ATOM	914	С	ARG		•	27.523	42.989	50.216		44.96	6
0		ATOM	915	Õ	ARG			27.744	42.344	51.260			8
·D												45.60	
		ATOM	916	N	PRO			26.852	44.144	50.223		45.33	7
	40	ATOM	917	CD	PRO			26.625	44.964	49.027		46.85	6
	40	MOTA	918	CA	PRO			26.298	44.738	51.446		47.37	6
		ATOM	919	CB	PRO			25.841	46.130	51.012	1.00	46.90	6
		ATOM	920	CG	PRO	Α	384	26.075	46.229	49.567	1.00	46.41	6
		ATOM	921	С	PRO	Α	384	25.158	43.919	52.049	1.00	48.29	6
		ATOM	922	0	PRO	Α	384	24.404	43.264	51.329	1.00	48.34	8
	45	ATOM	923	N	GLY			25.039	43.983	53.383		49.88	7
	-	ATOM	924	CA	GLY			23.991	43.270	54.113		50.35	6
		ATOM	925	C	GLY			24.347	41.852	54.495		50.70	
			926										6
		ATOM		0	GLY			23.614	41.204	55.244		53.48	8
	50	ATOM	927	N	LEU			25.466	41.371	53.955		49,04	7
	50	ATOM	928	CA	LEU			25.901	40.017	54.215		50.53	6
		ATOM	929	CB	LEU			27.224	39.751	53.492	1.00	45.17	6
		ATOM	930	CG	LEU	A	386	27.152	39.592	51.993	1.00	48.26	6
		ATOM	931	CD1	LEU	Α	386	28.542	39.439	51.404	1.00	41.68	6
		ATOM	932	CD2	LEU	A	386	26.302	38.374	51.682		38.40	6
	55	ATOM	933	С	LEU			26.045	39.776	55.691		52.13	6
		ATOM	934	Ō	LEU			26.296	40.692	56.459		53.67	8
		ATOM	935	N	ALA			25.861	38.522	56.077		53.42	7
		ATOM	936	CA	ALA			25.976	38.129				6
		ALON	930	CA	WIIN	^	301	23.310	30.163	57.470	1.00	56.01	0

	5	ATOM	937	CB	ALA	A	387	24.802	37.234	57.854	1.00	56.47	6
		ATOM	938	C	ALA	A	387	27.289	37.385	57.659	1.00	55.52	6
		ATOM	939	0	ALA	A	387	28.275	37.940	58.134	1.00	53.75	8
		ATOM	940	N	CYS	Α	388	27.273	36.120	57.253	1.00	56.03	7
		ATOM	941	CA	CYS	A	388	28.412	35.236	57.370	1.00	59.57	6
	10	ATOM	942	CB			388	27.923	33.803	57.172	1.00	59.23	6
	-	ATOM	943	SG			388	26.397	33.431	58.009	1.00		16
		ATOM	944	C	•		388	29.482	35.581	56.328		62.18	6
		ATOM	945	Ö			388	29.720	34.821	55.400		67.88	8
		MOTA	946	N			389	30.110	36.747	56.495		60.78	7
	15	ATOM	947	CA			389	31.173	37.212	55.590		57.70	6
	13		948	CB			389	31.740	38.567	56.024		57.09	6
													6
		MOTA	949	CG1			389	32.795	39.037	55.041	1.00		
		ATOM	950		VAL			30.640	39.598	56.171		53.98	6
	00	MOTA	951	С			389	32.297	36.182	55.550		57.77	6
	20	MOTA	952	0			389	32.358	35.336	54.662		60.94	8
		MOTA	953	N			390	33.182	36.292	56.528		52.68	7
		ATOM	954	CA			390	34.347	35.431	56.684	1.00		6
		MOTA	955	СВ			390	34.703	35.321	58.185		45.19	6
		ATOM	956	С			390	34.224	34.040	56.082		47.63	6
:0	25	MOTA	957	0			390	35.107	33.597	55.348	1.00	51.95	8
IU		ATOM	958	N	ARG	Α	391	33.117	33.366	56.391	1.00	47.11	7
Œ		MOTA	959	CA	ARG	Α	391	32.879	32.018	55.885	1.00	51.64	6
卢스		MOTA	960	CB	ARG	A	391	31.520	31.498	56.383	1.00	54.22	6
'~ J		MOTA	961	CG	ARG	A	391	31.267	30.012	56.059	1.00	64.20	6
1=	30	ATOM	962	CD	ARG	A	391	29.930	29.489	56.602	1.00	73.80	6
14		ATOM	963	NE	ARG	A	391	29.787	28.044	56,454	1.00	79.76	7
li		ATOM	964	CZ	ARG	Α	391	30.573	27.140	57.043	1.00	84.27	6
		ATOM	965	NH1				31.598	27.535	57.806		85.28	7
IJ		ATOM	966	NH2	ARG			30.340	25.840	56,849		86.84	7
لرا 21	35	ATOM	967	С	ARG			32.922	31.986	54.358		48,18	6
13		ATOM	968	ō	ARG			33.494	31.080	53.756		49.57	8
Ū		ATOM	969	N	ILE			32.281	32.993	53.762		45.01	7
· 🗓		ATOM	970	CA	ILE			32.196	33.148	52.319		48.77	6
		ATOM	971	СВ	ILE			31.224	34.297	51.963		46.45	6
	40	ATOM	972	CG2	ILE			31.241	34.582	50.479		42.35	6
	40	ATOM	973		ILE			29.791	33.953	52.402		49.69	
		ATOM	974		ILE			28.792	35.039	52.113		51.09	6
					ILE								6
		ATOM	975	C				33.554	33.356	51.641		50.90	6
	15	ATOM	976	0	ILE			33.914	32.605	50.732		52.21	8
	45	ATOM	977	N	GLU			34.298	34.374	52.071		50.43	7
		ATOM	978	CA	GLU			35.592	34.684	51.471		50.30	6
		ATOM	979	CB	GLU			36.437	35.561	52.387		53.97	6
		ATOM	980	CG	GLŲ			36.558	36.966	51.844		62.18	6
		ATOM	981	CD	GLU			37.546	37.777	52.564		67.69	6
	50	ATOM	982		GLU			38.149	38.741	52.119		66.42	8
		ATOM	983		GLU			37.856	37.640	53.729		70.64	8
		ATOM	984	С	GLU			36.341	33.429	51.230		49.31	6
		ATOM	985	0	GLU			36.755	33.089	50.125		49.53	8
		ATOM	986	N	LYS	A	394	36.552	32.730	52.303	1.00	46.07	7
	55	ATOM .	987	CA	LYS	A	394	37.265	31.543	52.078	1.00	45.76	6
		ATOM	988	CB	LYS	Α	394	37.396	30.800	53.373	1.00	43.85	6
		ATOM	989	CG	LYS	Α	394	38.207	31.617	54.394	1.00	40.00	6
		ATOM	990	CD	LYS	A	394	39.372	32.374	53.705	1.00	40.00	6

	5	MOTA	991	CE	LYS	Α	394	40.136	33.265	54.681	1.00 40.00	6
		ATOM	992	NZ	LYS	A	394	41.516	33.602	54.162	1.00 40.00	7
		ATOM .	993	С			394	36.568	30.778	50.966	1.00 46.69	6
		ATOM	994	0			394	37.215	30.427	49.988	1.00 49.13	
		ATOM	995	N			395	35.269	30.514	51.095	1.00 46.57	
	10	ATOM	996	CA			395	34.553	29.823	50.022	1.00 43.33	
		ATOM	997	СВ			395	33.059	30.123	50.076	1.00 48.44	
		ATOM	998	CG			395	32.275	29.236	50.994	1.00 53.83	
		ATOM	999	CD1			395	31.010	29.598	51.415	1.00 56.43	
		ATOM	1000	CE1			395	30.266	28.769	52.252	1.00 59.73	
	16											
	15	ATOM	1001	CD2			395	32.790	28.033	51.428	1.00 56.47	
		ATOM	1002	CE2			395	32.054	27.198	52.265	1.00 62.60	
		ATOM	1003	CZ			395	30.787	27.565	52.687	1,00 63.18	
		ATOM	1004	ОН			395	30.059	26.753	53.528	1.00 64.46	
		ATOM	1005	C			395	35.120	30.356	48.716	1.00 37.30	
	20	MOTA	1006	0			395	35.643	29.601	47.908	1.00 34.10	
		MOTA	1007	N			396	35.029	31.670	48.522	1.00 31.92	
		MOTA	1008	CĀ			396	35.563	32.273	47.305	1.00 34.81	
4200		MOTA	1009	CB			396	35.403	33.801	47.329	1.00 32.64	
Ō		MOTA	1010	CG			396	36.088	34.485	46.162	1.00 29.57	
Ų.	25	MOTA	1011	CD			396	35.616	35.891	45.927	1.00 29.46	
IJ		MOTA	1012	OE1	GLN			35,599	36.726	46.862	1.00 34.65	
Ø		ATOM	1013	NE2				35.245	36.173	44.689	1.00 27.21	
 		MOTA	1014	С			396	37.035	31.909	47.167	1.00 37.13	
`₹ -		MOTA	1015	0			396	37.511	31.590	46.080	1.00 37.36	
, -	30	ATOM	1016	N			397	37.751	31.970	48.285	1.00 38.61	
#		ATOM	1017	CA	ASP			39.164	31.642	48.298	1.00 40.37	
:: (<u></u>)		MOTA	1018	CB	ASP			39.757	31.869	49.704	1.00 40.51	
الرا الدا		MOTA	1019	CG	ASP			39.813	33.319	50.095	1.00 43.77	
lii		MOTA	1020	OD1	ASP			40.397	34.123	49.334	1.00 46.50	
	35	MOTA	1021	OD2				39.299	33,702	51,184	1.00 51.34	
ıΩ		ATOM	1022	С	ASP			39.302	30.176	47.898	1.00 38.62	
O O		ATOM	1023	0	ASP	A	397	40.230	29.809	47.199	1.00 39.20	
		ATOM	1024	N	SER	Α	398	38.350	29.359	48.344	1.00 37.84	
		ATOM	1025	CA	SER	Α	398	38.348	27.929	48.063	1.00 37.80	6
	40	ATOM	1026	CB	SER	A	398	37.240	27.240	48.878	1.00 34.28	6
		MOTA	1027	OG	SER	A	398	37.297	25.826	48.755	1.00 46.60	8
		ATOM	1028	С	SER	Α	398	38.164	27.639	46.581	1.00 38.41	6
		ATOM	1029	0	SER	A	398	38.677	26.642	46.075	1.00 39.98	8
		MOTA	1030	N	PHE	Α	399	37.419	28.507	45.893	1.00 34.82	7
	45	MOTA	1031	CA	PHE	Α	399	37.181	28.325	44.462	1.00 35.96	6
		MOTA	1032	CB	PHE	Α	399	35.873	28.983	44.015	1.00 35.75	6
		ATOM	1033	CG	PHE	Α	399	34.632	28.216	44.403	1.00 39.30	6
		ATOM	1034	CD1	PHE	Α	399	34.107	28.294	45.677	1.00 39.86	6
		MOTA	1035	CD2	PHE	Α	399	34.018	27.393	43.488	1,00 36.81	б
	50	MOTA	1036	CE1	PHE	Α	399	32.961	27.557	46.013	1.00 41.25	6
		ATOM	1037	CE2	PHE	Α	399	32.880	26.661	43.825	1.00 43.61	6
		MOTA	1038	CZ	PHE	A	399	32.354	26.740	45.087	1.00 40.34	6
		MOTA	1039	С	PHE	Α	399	38.328	28.890	43.630	1.00 33.48	
		ATOM	1040	0	PHE			38.867	28.200	42.756	1.00 26.86	
	55	MOTA	1041	N	LEU			. 38.680	30.156	43.877	1.00 31.47	
		ATOM	1042	CA	LEU			39.754	30.796	43.132	1.00 37.41	
		ATOM	1043	CB	LEU	A	400	40.179	32.100	43.814	1.00 34.24	6
		MOTA	1044	CG	LEU	Α	400	39.239	33.265	43.628	1.00 35.10	
									•			

	5	ATOM	1045	CD1	LEU	Α	400	39.803	34.531	44.256	1.00	26.60	6
		ATOM	1046	CD2	LEU	Α	400	39.065	33.479	42.137	1.00	29.44	6
		ATOM	1047	С	LEU	A	400	40.941	29.872	42.947	1.00	38.84	6
		ATOM	1048	0	LEU	Α	400	41.367	29.632	41.821	1.00	40.38	8
		ATOM	1049	N			401	41.464	29.350	44.055		42.79	7
	10	ATOM	1050	CA	LEU			42.605	28.449	43.988		43.48	6
		ATOM	1051	СВ			401	42.900	27.821	45.355		44.73	6
		ATOM	1052	CG			401	44.105	26.899	45.354		51.39	6
		ATOM	1052	CD1	LEU			45.374	27.749	45.143		50.11	6
				CD2	LEU							49.30	
	16	ATOM	1054					44.205	26.122	46.662			6
	15	ATOM	1055	C	LEU			42.324	27.340	42.981		41.62	6
		ATOM	1056	0	LEU			43.052	27.180	42.004		45.14	8
		ATOM	1057	N	ALA			41.269	26.574	43.245		37.92	7
		ATOM	1058	CA	ALA			40.873	25.469	42.386		29.90	6
		ATOM	1059	CB	ALA			39.522	24.928	42.834	1.00	30.70	6
	20	ATOM	1060	С	ALA	A	402	40.798	25.909	40.929	1.00	28.88	6
		MOTA	1061	0	ALA	Α	402	41.277	25.203	40.034	1.00	32.14	8
		ATOM	1062	N	PHE	Α	403	40.200	27.086	40.707	1.00	31.07	7
		MOTA	1063	CA	PHE	Α	403	40.052	27.642	39.363	1.00	29.90	6
		ATOM	1064	СВ	PHE	Α	403	39.379	29.019	39.438	1.00	27.03	6
۱Ö	25	ATOM	1065	CG	PHE	A	403	38.943	29.574	38.100	1.00	26.97	6
IU		ATOM	1066	CD1	PHE			38.228	30.758	38.033	1.00	25.55	6
Ü		ATOM	1067	CD2	PHE			39.224	28.905	36.925		19.75	6
4		ATOM	1068	CE1	PHE			37.784	31.266	36.808		27.90	6
1		ATOM	1069	CE2	PHE			38.780	29.416	35.694		22.56	6
l ala	30	ATOM	1070	CZ	PHE			38.063	30.596	35.640		22.24	6
أسيأ	50	ATOM	1071	C	PHE			41.429	27.756	38.719		28.82	6
£1		ATOM	1071	0	PHE			41.666	27.730	37.646		26.00	8
			1072		GLU				28.463				7
لدا		ATOM		N				42.329		39,402		30.25	
ليا	35	ATOM	1074	CA	GLU			43.695	28.665	38.922		34.03	6
IJ	33	ATOM	1075	CB	GLU			44.513	29.416	39.983		39.45	6
ú		ATOM	1076	CG	GLU			45.867	29.935	39.489		47.68	6
ũ		ATOM	1077	CD	GLU			46.734	30.507	40.571		54.02	6
		MOTA	1078	OE1	GLU			46.236	31.298	41.408		57.27	8
	4.0	ATOM	1079		GLU			47.956	30.202	40.606		63.85	8
	40	ATOM	1080	С	GLU			44.352	27.322	38.634		36,01	6
		ATOM	1081	0	GLU			44.936	27.112	37.574		38.64	8
		ATOM	1082	N	HIS	Α	405	44.259	26.420	39.610	1.00	29.56	7
		ATOM	1083	CA	HIS			44.840	25.093	39.468		31.69	6
		MOTA	1084	CB	HIS	Α	405	44.540	24.228	40.694	1.00	33.75	6
	45	MOTA	1085	CG	HIS	Α	405	45.292	24.657	41.908	1.00	34.75	6
		ATOM	1086	CD2	HIS	Α	405	46.198	25.640	42.130	1.00	34.58	6
		ATOM	1087	ND1	HIS	Α	405	45.161	23.984	43.130	1.00	32.43	7
		ATOM	1088	CE1	HIS	Α	405	45.975	24.568	44.018	1.00	36.15	6
		MOTA	1089	NE2	HIS	Α	405	46.601	25.561	43.430	1.00	39.84	7
	50	ATOM	1090	С	HIS			44.274	24.445	38.225		34.21	6
		ATOM	1091	0	HIS			45.029	23.949	37.386	•	37.06	8
		ATOM	1092	N	TYR			42.947	24.453	38.100		30.83	7
		ATOM	1093	CA	TYR			42.313	23.859	36.930		28.85	6
		ATOM	1093	CB	TYR			40.805	24.080	36.934		31.48	6
	55	ATOM	1094	CG	TYR			40.139	23.494	35.709		23.49	6
		ATOM	1095		TYR			40.139	22.123	35.532		19.42	6
		ATOM	1098		TYR							23.80	
		ATOM	1097		TYR			39.517	21.577	34.382 34.704		21.81	6 6
•		MION	1030	CDZ	TIK	Α.	300	39.646	24.313	34.704	1.00	£1.01	v
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	5	MOTA	1099	CE2	TYR	A	406	39.090	23.769	33.551	1.00	24.64	6
		ATOM	1100	CZ	TYR	A	406	39.029	22.395	33.380	1.00	21.56	6
		ATOM	1101	ОН	TYR	A	406	38.489	21.850	32.236	1.00	24.96	8
		MOTA	1102	С	TYR	A	406	42.882	24.504	35.672	1.00	24.24	6
		ATOM	1103	0	TYR	A	406	42.958	23.872	34.621	1.00	27.08	8
	10	ATOM	1104	N	ILE	A	407	43.253	25.784	35.807	1.00	25.76	7
		MOTA	1105	ÇA	ILE	A	407	43.824	26.548	34.705	1.00	33.75	6
		ATOM	1106	CB	ILE	A	407	43.986	28.033	35.070	1.00	34.23	6
		ATOM	1107	CG2	ILE	A	407	44.967	28.712	34.139	1.00	32,46	б
		ATOM	1108	CG1	ILE	А	407	42.615	28.728	35.042	1.00	43.30	6
	15	ATOM	1109	CD1	ILE			41.896	28.602	33.694		40.40	6
		MOTA	1110	С	ILE			45.143	25.973	34.256	1.00	39.03	6
		ATOM	1111	0	ILE			45.383	25.771	33.063		35.18	8
		ATOM	1112	N	ASN			46.003	25.721	35.227		37.25	7
		ATOM	1113	CA	ASN			47.307	25.194	34.926		37.01	6
	20	ATOM	1114	СВ	ASN			48.107	25.017	36.213		32.27	6
		ATOM	1115	CG	ASN			48.346	26.362	36.936		33.56	6
		ATOM	1116	OD1				48.827	27.335	36.320		31.99	8
		ATOM	1117	ND2	-			48.038	26.403	38.231		31.23	7
		ATOM	1118	C	ASN			47.205	23.892	34.136		38.14	6
Ū	25	ATOM	1119	o	ASN			47.900	23.734	33.124		42.16	8
IU		ATOM	1120	N	TYR			46.334	22.981	34.568		35.62	7
Ü		MOTA	1121	CA	TYR			46.159	21.710	33.866		35.91	. 6
		ATOM	1122	СВ	TYR			45.051	20.859	34.507		34.41	6
, •		ATOM	1123	CG	TYR			44.624	19.687	33.619		38.73	б
į ub	30	ATOM	1124	CD1	TYR			45.563	18.765	33.155		41.34	6
, 4		ATOM	1125	CE1	TYR	A	409	45.186	17.709	32.321	1.00	47.16	6
ř!		ATOM	1126	CD2	TYR	Α	409	43.292	19.515	33.232	1.00	46.20	6
٦		ATOM	1127	CE2	TYR	А	409	42.913	18.455	32.397	1.00	50.74	6
أبدأ		ATOM	1128	CZ	TYR	Α	409	43.863	17.551	31.946	1.00	50.88	6
IJ	35	ATOM	1129	ОН	TYR	A	409	43.498	16.514	31.130	1.00	53.14	8
		ATOM	1130	С	TYR	A	409	45.760	21.966	32.424	1.00	38.16	6
O		MOTA	1131	0	TYR	A	409	46.202	21.281	31.502	1.00	41.83	8
1		ATOM	1132	N	ARG	Α	410	44.872	22.943	32.272	1.00	42.25	7
		ATOM	1133	CA	ARG	A	410	44.345	23.332	30.984	1.00	42.83	6
	40	ATOM	1134	СВ	ARG	A	410	43.311	24.427	31.195	1.00	36.83	6
		MOTA	1135	CG	ARG	A	410	41.994	23.979	31.795	1.00	34.32	6
		ATOM	1136	CD	ARG	A	410	41.073	23.504	30.675	1.00	36.62	б
		ATOM	1137	NE	ARG	A	410	40.888	24.550	29.685	1.00	38.64	7
		ATOM	1138	CZ	ARG	A	410	40.177	24.397	28.576	1.00	35.73	6
	45	ATOM	1139	NH1	ARG	Α	410	39.572	23.230	28.348	1.00	33.17	7
		MOTA	1140	NH2	ARG	A	410	40.077	25.407	27.708	1.00	32.70	7
		ATOM	1141	С	ARG	A	410	45.442	23.850	30.083	1.00	46.67	6
		MOTA	1142	0	ARG	Α	410	45.467	23.591	28.882	1.00	41.78	8
		ATOM	1143	N	LYS .	A	411	46.360	24.577	30.710	1.00	52.99	7
	50	ATOM	1144	CA	LYS .	A	411	47.467	25.194	30.017	1.00	58.32	6
		MOTA	1145	CB	LYS .	A	411	48.645	24.216	29.876	1.00	64.99	6
		ATOM	1146	CG	LYS .	A	411	48.349	22.835	29.367	1.00	70.48	6
		MOTA	1147	CD	LYS .	A	411	49.608	21.974	29,494	1.00	77.18	6
		ATOM	1148	CE	LYS .	A	411	49.461	20.621	28.795	1.00	84.30	6
	55	ATOM	1149	NZ	LYS .			50.740	19.828	28.857		86.48	7
		ATOM	1150	С	LYS .	A	411	47.032	25.756	28.686	1.00	56.66	6
		MOTA	1151	0	LYS			47.160	25.153	27.633		55.47	8
		MOTA	1152	N	HIS .	A	412	46.458	26.943	28.823	1.00	54.67	7

	5	MOTA	1153	ÇA	HIS	A	412	45.984	27.722	27.705	1.00	48.67	6
		ATOM	1154	CB	HIS	A	412	45.124	28.884	28.201	1.00	43,14	б
		ATOM	1155	CG	HIS			43.812	28,480	28.755	1.00	41.36	6
		ATOM	1156		HIS			43.429	28.064	29.987		35.44	6
		ATOM	1157		HIS			42.651	28.440	27.966		38.19	7
	10	ATOM	1158		HIS			41.648	28.014	28.723		34.75	6
	10	ATOM	1159	NE2				42.094	27.780	29.942		35.52	7
			1160	C				47.231	28.303	27.101		46.35	6
		MOTA			HIS								
		ATOM	1161	0	HIS			48.269	28.452	27.775		42.73	8
		MOTA	1162	N	HIS			47.116	28.696	25.839		48.92	7
	15	MOTA	1163	CA	HIS			48.234	29.290	25.146		53.15	6
		MOTA	1164	CB	HIS			48.404	28.666	23.755		55.27	6
		MOTA	1165	ÇG	HIS			49.326	29.446	22.886		58.77	6
		MOTA	1166	CD2	HIS	A	413	49.213	30.660	22.304	1,00	61.65	6
		MOTA	1167	ND1	HIS	A	413	50.617	28.997	22.564	1.00	60.31	7
	20	MOTA	1168	CE1	HIS	A	413	51.214	29.924	21.828	1.00	63.01	6
		MOTA	1169	NE2	HIS	A	413	50.386	30.941	21.658	1.00	62.93	7
		MOTA	1170	С	HIS	Α	413	47.932	30.768	24,998	1.00	53.19	6
		MOTA	1171	0	HIS	A	413	47.639	31.301	23.934	1,00	54.93	8
Ð		ATOM	1172	N	VAL	Α	414	47.964	31,413	26.139	1.00	53.77	7
Ö	25	ATOM	1173	CA			414	47.735	32.811	26.146		51.06	6
īŪ		ATOM	1174	СВ	VAL			46.291	33.183	26.417		51.49	6
Ø		ATOM	1175		VAL			46.186	34.715	26.603		45.22	6
14		ATOM	1176		VAL			45.419	32.732	25.263		52.67	6
٠,		ATOM	1177	C	VAL			48.623	33.283	27.226		54.28	6
1-6	30	ATOM	1178	0	VAL			48.427	33.029	28.409		55.49	8
· J	50	ATOM	1179	N	THR			49.706	33.863	26.733		56.28	7
1!			1180		THR			50.721	34.484	27.557		57.83	6
		ATOM		CA									6
لدا		ATOM	1181	CB	THR			51.268	35,675	26.758		59.64	
11	2.5	ATOM	1182	OG1	THR			51.605	36.754	27.636		66.69	8
	35	ATOM	1183	CG2	THR			50.197	36.158	25.745		59.42	6
ũ		ATOM	1184	C	THR			50.146	35.049	28.879		56.98	6
Q		ATOM	1185	0	THR			48.933	35.146	29.051		55.70	8
- 52		ATOM	1186	N	HIS			51.068	35.330	29.795		57.44	7
		ATOM	1187	CA	HIS			50.808	36.011	31.047		57.34	6
	40	ATOM	1188	CB	HIS			51.346	37.422	30.708		61.35	6
		ATOM	1189	CG				51.872	38.237			69.78	6
		ATOM	1190		HIS			53.114	38.297			71.42	6
		ATOM	1191		HIS			51.135	39.263			72.49	7
		ATOM	1192	CE1	HIS	Α	416	51.914	39.884	33.290	1.00	75.50	6
	45	MOTA	1193	NE2	HIS	Α	416	53.099	39.323	33.291	1.00	73.91	7
		ATOM	1194	С	HIS	Α	416	49.261	35.892	31.297	1.00	53.79	6
		ATOM	1195	0	HIS	Α	416	48.499	36.779	30.902	1.00	52.81	8
		ATOM	1196	N	PHE	A	417	48.806	34.779	31.911	1.00	48.05	7
		ATOM	1197	CA	PHE			47.355	34.428	32.061	1.00	47.99	6
	50	ATOM	1198	СВ	PHE			47.165	32.954	31.996	1.00	46.11	6
		ATOM	1199	CG	PHE			45.835	32.590	31.399		44.27	6
		ATOM	1200		PHE			45.680	32.720	30.046		41.79	6
		ATOM	1201		PHE			44.758	32.135	32.164		40.23	6
		ATOM	1202		PHE			44.498	32.397	29.422		44.30	6
	55	ATOM	1203		PHE			43.540	31.802	31.529		36.80	6
		ATOM	1204	CZ	PHE			43.427	31.928	30.144		40.69	6
		ATOM	1205	C	PHE			46.427	34.836	33.196		46.69	6
		ATOM	1206	0	PHE			46.147	36.004	33.331		43.35	8
		111011	1500	•	CHE	^	4 Y 1	30.147	50.004	JJ. JJ.	1.00	4J.JJ	J

	5	ATOM	1207	N	TRP	A	418	45.906	33.801	33.909	1.00	45.14	7
		ATOM	1208	CA	TRP	A	418	44.982	33.867	35.065	1.00	44.89	6
		ATOM	1209	CB	TRP	A	4.18	45.545	33.099	36.255	1.00	42.24	6
		ATOM	1210	CG	TRP	A	418	44.959	33.452	37.598	1.00	47.11	6
		ATOM	1211	CD2	TRP	A	418	43.724	32.924	38.149	1.00	46.98	6
	10	ATOM	1212	CE2	TRP	A	418	43.534	33.565	39.413		48.94	6
		ATOM	1213	CE3			418	42.777	31.986	37.688		45.23	6
		ATOM	1214	CD1			418	45.434	34.350	38.512		46.24	6
		ATOM	1215	NE1			418	44.588	34.407	39.608		50.63	7
		ATOM	1216	CZ2			418	42.441	33.270	40.238		45.46	б
	15	ATOM	1217	CZ3			418	41.686	31.706	38.500		44.50	6
	••	ATOM	1218	CH2			418	41.511	32.335	39.753		47.55	6
		ATOM	1219	C			418	44.908	35.324	35.398		43.88	6
		ATOM	1220	0			418	43.797	35.839	35,702		43.17	8
		ATOM	1221	N			419	46.084	35.976	35.461		43.55	7
	20	ATOM	1222	CD			419	47.467	35.482	35.400		41.52	6
	20	ATOM	1223	CA			419	46.009	37.396	35.758		41.48	6
		ATOM	1224	СВ			419	47.436	37.884	35.535		39.21	6
		ATOM	1225	CG			419	48.261	36.696	35.223		39.25	6
	•	ATOM	1226	C			419	44.960	38.090	34.817		36.28	6
Ü	25	ATOM	1227	0			419	44.208	38.978	35.237		37.08	8
Ū	23	ATOM	1228	N			420	44.915	37.701	33.540		35.96	7
Ü		ATOM	1229	CA			420	43.977	38.287	32.575		40.82	6
1=		ATOM	1230	CB			420	44.314	37.805	31.155		40.78	6
1		ATOM	1231	CG			420	45.684	38.244	30.641		48.62	6
占	30	ATOM	1232	CD			420	45.904	37.781	29.206		55.12	6
16	50	ATOM	1233	CE			420	47.248	38.261	28.673		53.26	6
ěi:		ATOM	1234	NZ			420	47.448	37.884	27.222		52.69	7
		ATOM	1235	C			420	42.580	37.832	32.948		40.29	6
Į,Į		ATOM	1235	0	LYS			41.656	38.626	32.940		39.66	8
	35	ATOM	1237	N	LEU			42.461	36.537	33.245		38.33	7
	33	ATOM	1237	CA	LEU			41.186	35.931	33.613		37.60	6
Ū		ATOM	1239	CB	LEU			41.397	34.433	33.915		43.66	6
١Ū		ATOM	1239	CG	LEU			40.204	33.518	33.828		46.50	6
		ATOM	1240	CD1	LEU			39.643	33.624	32.426		45.15	6
	40	ATOM	1241		LEU			40.595	32.094	34.131		51.31	6
	40	ATOM	1242		LEU							39.59	
		ATOM	1243	С О	LEU			40.575 39.371	36.664 36.910	34.808 34.837		40.66	6
		ATOM	1244	N	LEU			41.412	37.017	35.782		39.57	8 7
			1245	CA	LEU			40.946	37.726	36.961		38.63	
	45	ATOM	1247	CB	LEU			42.085	37.726	37.971		41.79	6
	75	ATOM		CG	LEU			42.424					6
		ATOM	1248						36.671	38,798		42.74	6
		ATOM	1249		LEU			43.490	37.010	39.820		42.89	6
		ATOM	1250		LEU			41.168	36.216	39.523		39.27	6
	50	ATOM	1251	С	LEU			40.381	39.073	36.589		40.47	6
	50	ATOM	1252	0	LEU			39.428	39.525	37.210		47.83	8
		ATOM	1253	N	MET			40.969	39.698	35.569		34.27	7
		ATOM	1254	CA	MET			40.511	41.001	35.117		35.25	6
		ATOM	1255	СВ	MET			41.427	41.553	34.028		32.56	6
	55	ATOM	1256	CG	MET			42.856	41.732	34.456		40.70	6
	23	ATOM	1257	SD	MET			43.707	43.101	33.619		47.65	16
		ATOM	1258	CE	MET			43.348	42.776	31.848		47.16	6
		ATOM	1259	C	MET			39.100	40.899	34.574		35.13	6
		ATOM	1260	0	MET	A	423	38.315	41.829	34.696	1.00	29.85	8

	5	ATOM	1261	N	LYS	A.	424	38.791	39.752	33.975	1.00	31.56	7
		ATOM	1262	ÇA	LYS	Α	424	37.470	39.529	33.423	1.00	32.29	б
		ATOM	1263	CB	LYS	A	424	37.446	38.205	32.658	1.00	30.56	6
		ATOM	1264	CG			424	38.394	38.192	31.455	1.00	30.07	6
		ATOM	1265	CD			424	38.050	39.326	30.488		33.22	6
	10	ATOM	1266	CE			424	39.032	39.433	29.322		28.75	6
	. •	ATOM	1267	NZ			424	40.394	39.942	29.707		31.01	7
		ATOM	1268	C			424	36.418	39.558	34.524		29.26	6
									39.998	34.289			8
	•	MOTA	1269	0			424	35.307					
	1.5	ATOM	1270	N			425	36.796	39.098	35.719		23.53	7
	15	ATOM	1271	CA			425	35.897	39.107	36.866		28.91	6
		MOTA	1272	CB			425	36.541	38.460	38.094		29.44	6
		MOTA	1273	CG1			425	35.673	38.642	39.320		28.81	6
		MOTA	1274	CG2	VAL			36.764	36.985	37.849	1.00	31.22	6
		MOTA	1275	С	VAL	A	425	35.512	40.548	37.161	1.00	32.03	б
	20	ATOM	1276	0	VAL	A	425	34,350	40.839	37.429	1.00	31.95	8
		ATOM	1277	N	THR	A	426	36.496	41.444	37.124	1.00	33.61	7
		ATOM	1278	CA	THR	Α	426	36.248	42.866	37.356	1.00	30.76	6
		ATOM	1279	CB	THR	Α	426	37.559	43.670	37.360	1.00	32.34	6
		ATOM	1280	OG1			426	38.209	43.565	38.630		33.07	8
Ď	25	ATOM	1281	CG2			426	37.302	45.131	37.015		25.40	6
ĮŪ		ATOM	1282	С			426	35.363	43.324	36.211		32.53	6
Ø		ATOM	1283	ō			426	34.357	44.006	36.405		35.19	8
<u> </u>		ATOM	1284	N	ASP			35.763	42.929	35.006		28.83	7
-		ATOM	1285	CA	ASP			35.011	43.272	33.810		35.12	6
-	30	ATOM	1286	CB	ASP			35.556	42.524	32.578		39.14	6
W	30												
31		ATOM	1287	CG			427	36.837	43.103	32.057		45.80	6
		ATOM	1288		ASP			36.982	44.346	32.024		41.97	8
IJ		ATOM	1289		ASP			37.735	42.333	31.616		50.06	8
	2.5	ATOM	1290	C	ASP			33.537	42.925	34.028		33.94	6
	35	ATOM	1291	0	ASP			32.659	43.712	33.702	1.00	38.02	8
Ď		ATOM	1292	N	LEU			33.283	41.745	34.584		27.15	· 7
Ū		ATOM	1293	CA	LEU			31.925	41.293	34.850		29.99	6
·as		ATOM	1294	СВ	LEU			31.924	39.786	35.133		22.49	6
		MOTA	1295	CG	LEU			32.104	38.873	33.939	1.00	25.54	6
	40	ATOM	1296	CD1	LEU	A	428	32.202	37.421	34.353	1.00	20.60	6
		ATOM	1297	CD2	LEU	A	428	30.920	39.083	33.029	1.00	17.24	6
		ATOM	1298	C .	LEU	A	428	31.276	42.057	35.991	1.00	28.94	6
		ATOM	1299	0	LEU	Α	428	30.082	42.306	35.939	1.00	31.26	8
		ATOM	1300	N	ARG	Α	429	32.059	42.423	37.011	1.00	27.64	7
	45	ATOM	1301	CA	ARG	Α	429	31.527	43.162	38.147	1.00	28.13	6
		ATOM	1302	СВ	ARG			32.564	43.298	39.264		29.59	6
		ATOM	1303	CG	ARG			32.818	42.040	40.080		34.85	6
		ATOM	1304	CD	ARG			33.588	42.360	41.367		47.18	6
		ATOM	1305	NE	ARG			34.093	41.175	42.049		57.93	7
	50	ATOM	1306	CZ	ARG			33.327		42.547		63.62	6
	50	ATOM	1307		ARG			31.998	40.270	42.396		60.71	7
			1307					33.900	39.165				7
		ATOM	1308	C NHZ	ARG ARG			31.099	44.536	43.150		62.38	6
		ATOM								37.707			
	55	ATOM	1310	0	ARG			30.044	45.009	38.101		30.81	8
	33	ATOM	1311	N	MET			31.941	45.176	36.901		29.64	7
		ATOM	1312	CA	MET			31.644	46.502	36.383		34.72	6
		ATOM	1313	CB	MET			32.745	46.955	35.434		34.97	6
		ATOM.	1314	CG	MET	A	430	33.937	47.597	36.080	1.00	45.34	6
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								1174					

								•					
	5	ATOM	1315	SD	MET	A	430	33.520	49.120	36.937	1.00	52.55	16
		ATOM	1316	CE	MET	A	430	32.942	50.174	35.585	1.00	55.56	6
		ATOM	1317	С	MET	A	430	30.315	46.455	35.634	1.00	34.01	6
		ATOM	1318	0	MET	Α	430	29.455	47.295	35.854	1.00	37.29	8
		ATOM	1319	N	ILE	A	431	30.180	45.468	34.740	1.00	29.99	7
	10	ATOM	1320	CA	ILE			28.954	45.269	33.969	1.00	28.82	6
		ATOM	1321	СВ	ILE			28.962	43.936	33.211		27.39	6
		ATOM	1322	CG2	ILE			27.622	43.671	32.572		23.87	6
		ATOM	1323	CG1	ILE			30.044	43.920	32.138		25.56	6
		ATOM	1324	CD1	ILE			29.989	42.703	31.244		17.29	6
	15							27.769	45.269	34.907		29.49	6
	15	ATOM	1325	C			431						
		ATOM	1326	0			431	26.810	45.993	34.712		24.19	8
		ATOM	1327	N	GLY			27.839	44.435	35.936		25.25	7
		MOTA	1328	CA	GLY			26.748	44.343	36.890		30.38	6
		ATOM	1329	С	GLY			26.494	45.671	37.554		32.75	6
	20	ATOM	1330	0	GLY	A	432	25.411	46.206	37.469		36.38	8
		MOTA	1331	N	ALA	Α	433	27.514	46.189	38.221	1.00	26,77	7
		ATOM	1332	CA	ALA	A	433	27.428	47.459	38.910	1.00	26.48	6
		ATOM	1333	СВ	ALA	A	433	28.836	47.970	39.203	1.00	19.90	6
		ATOM	1334	С	ALA	Α	433	26.663	48.502	38.114	1.00	30.73	6
Ð	25	MOTA	1335	0	ALA			25.773	49.164	38.635	1.00	31.60	8
ľU		ATOM	1336	N	CYS			27.027	48.654	36.854		33.22	7
Ü		ATOM	1337	CA	CYS			26.371	49.616	35.996		34.34	6
įщ		ATOM	1338	СВ	CYS			27.047	49.612	34.711		35.20	6
·		ATOM	1339	SG	CYS			27.789	50.811	34.285		54.48	16
4	30	ATOM	1340	C	CYS			24.974	49.198	35.612		34.09	. 6
W	50		1341		CYS			24.107	50.040	35.415		34.89	8
£i		ATOM		0									7
		ATOM	1342	N	HIS			24.756	47.898	35.447		34.30	6
ليا		ATOM	1343	CA	HIS			23.453	47.423	35.042		35.44	
IJ		ATOM	1344	СВ	HIS			23.404	45.904	35.104		31.76	6
	35	ATOM	1345	CG	HIS			22.099	45.351	34.675		32.03	6
Ď		ATOM	1346		HIS			21.697	44.790	33.519		28.61	6
ıĎ		ATOM	1347		HIS			20.941	45.482	35.452		28.48	7
_		MOTA	1348		HIS			19.912	45.025	34.759		33.27	6
		MOTA	1349	NE2	HIS			20.345	44.597	33.583		31.57	7
	40	MOTA	1350	С	HIS	Α	435	22.400	47.974	35.972	1.00	32.74	6
		MOTA	1351	0	HIS	A	435	21.304	48.284	35.565	1.00	32.87	8
		ATOM	1352	N	ALA	Α	436	22.777	48.046	37.241	1.00	31.01	7
		ATOM	1353	CA	ALA	Α	436	21.910	48.563	38.266	1.00	29.91	6
		ATOM	1354	СВ	ALA	Α	436	22.661	48.595	39.580	1.00	21.23	6
	45	ATOM	1355	С	ALA			21.475	49.969	37.884		33.86	6
		ATOM	1356	0	ALA			20.296	50.298	37.910		36.10	8
		ATOM	1357	N	SER			22.453	50.795	37.532		35.19	7
		ATOM	1358	CA	SER			22.172	52.167	37.140		33.03	6
		ATOM	1359	СВ	SER			23.441	52.815	36.603		35.31	6
	50		1360	OG	SER			23.203	54,151	36.193		44.99	8
	30	MOTA											
		ATOM	1361	С	SER			21.110	52.158	36.055		38.39	6
		ATOM	1362	0	SER			20.049	52.745	36.204		37.54	8
		ATOM	1363	N	ARG			21.432	51.483	34.956		37.32	7
	~ ~	ATOM	1364	CA	ARG			20.534	51.379	33.821		39.30	6
	55	MOTA	1365	СВ	ARG			21.114	50.402	32.786		42.97	6
		ATOM	1366	CG	ARG			22.343	50.911	32.051		41.72	6
		ATOM	1367	CD	ARG			21.955	52.134	31.251		45.23	6
		ATOM	1368	NE	ARG	A	438	20.964	51.839	30.237	1.00	45.66	7

	5	ATOM	1369	CZ	ARG	Α	438	20.063	52.718	29.809	1.00	49.71	6
		ATOM	1370	NH1	ARG	A	438	20.046	53.958	30.318	1.00	50.91	7
		ATOM	1371	NH2	ARG	A	438	19.198	52.354	28.865	1.00	46.86	7
		ATOM	1372	С	ARG	Α	438	19.147	50.922	34.240	1.00	42.37	6
		MOTA	1373	0	ARG	А	438	18.147	51.297	33.625	1.00	40.58	8
	10	ATOM	1374	N	PHE	Α	439	19.080	50.120	35.298	1.00	42.25	7
		ATOM	1375	CA	PHE	Α	439	17.803	49.624	35.763	1.00	42.81	6
		ATOM	1376	СВ	PHE	Α	439	17.975	48.794	37.013	1,00	42.18	6
		ATOM	1377	CG	PHE	А	439	16.739	48.053	37.413	1.00	42.48	6
		ATOM	1378	CD1	PHE	A	439	16.198	47.111	36.562	1.00	47.09	6
	15	ATOM	1379	CD2	PHE	Α	439	16.105	48.320	38.613	1.00	39.76	- 6
		ATOM	1380	CE1	PHE	Α	439	15.047	46.427	36.905	1.00	49.17	6
		ATOM	1381	CE2	PHE	Α	439	14.940	47.630	38.963	1.00	45.10	6
		ATOM	1382	CZ	PHE			14.411	46.683	38.098		46.36	6
		ATOM	1383	C	PHE			16.921	50.803	36.075		44.79	6
	20	ATOM	1384	0	PHE			15.830	50.903	35.554		40.26	8
		ATOM	1385	N	LEU			17.410	51.681	36.951		42.77	7
		ATOM	1386	CA	LEU			16.660	52.871	37.344		42.96	6
	•	ATOM	1387	CB	LEU			17.546	53.824	38.150		37.19	6
		ATOM	1388	CG	LEU			17.943	53.297	39.500		36.97	6
Ō	25	ATOM	1389		LEU			18.620	54.389	40.316		33.65	6
ĪŪ		ATOM	1390		LEU			16.679	52.837	40.216		35.42	6
Œ		ATOM	1391	C	LEU			16.025	53.596	36.168		45.47	6
<u>-</u>		ATOM	1392	0	LEU			14.809	53.750	36.126		52.48	8
1		ATOM	1393	N	HIS			16.836	54.060	35.223		49.15	7
å	30	ATOM	1394	CA	HIS			16.277	54.725	34.063		54.76	6
		ATOM	1395	СВ	HIS			17.329	54.955	33.031		56.68	6
f!		ATOM	1396	CG	HIS			18.134	56.161	33.282		62.73	6
		ATOM	1397	CD2	HIS			18.468	57.216	32.499		65.73	6
لدا		ATOM	1398	ND1	HIS			18.701	56.431	34.538		66.01	7
	35	ATOM	1399		HIS			19.332	57.594	34.473		65.55	6
		ATOM	1400		HIS			19.205	58.085	33.255	1.00	60.09	7
ιŌ		ATOM	1401	С	HIS	Α	441	15.244	53.822	33.481	1.00	55.93	6
Ü		ATOM	1402	0	HIS			14.149	54.263	33.170	1.00	57.33	8
		ATOM	1403	N	MET			15.605	52.549	33.313	1.00	57.81	7
	40	ATOM	1404	CA	MET	Α	442	14.661	51.583	32.778	1.00	59.11	6
		MOTA	1405	СВ	MET			15.191	50.154	32.922		55.93	6
		ATOM	1406	CG	MET			16.336	49.813	32.022	1.00	58.52	6
		ATOM	1407	SD	MET	A	442	16.681	48.008	31.851	1.00	60.99	16
		ATOM	1408	CE	MET	A	442	17.085	47.602	33.581	1.00	52.61	6
	45	MOTA	1409	·C	MET			13.339	51.727	33.534	1.00	60.31	6
		ATOM	1410	0	MET			12.266	51.560	32.968	1.00	58.18	8
		ATOM	1411	N	LYS			13.425	52.054	34.818	1.00	61.45	7
		ATOM	1412	CA	LYS			12.236	52.202	35.626	1.00	64.90	6
		ATOM	1413	СВ	LYS			12.608	52.141	37.090	1.00	64.40	6
	50	ATOM	1414	CG	LYS			11.461	51.748	37.959	1.00	69.12	6
		ATOM	1415	CD	LYS			12.068	51.551	39.257	1.00	71.14	6
		ATOM	1416	CE	LYS			11.368	51.897	40.091	1.00	73.43	6
		ATOM	1417	NZ	LYS			11.883	51.712	41.415	1.00	67.97	7
		ATOM	1418	С	LYS			11.513	53.514	35.348		67.29	6
	55	ATOM	1419	0	LYS			10.390	53.700	35.780		67.90	8
		ATOM	1420	N	VAL			12.171	54.429	34.629		66.57	7
		ATOM	1421	CA	VAL			11.575	55.719	34.297		64.76	6
		ATOM	1422	СВ	VAL			12.569	56.869	34.560		62.76	6

	5	ATOM	1423	CG1	VAL	A	444	11.952	58.195	34.174	1,00	64.00	6
		MOTA	1424	CG2	VAL	A	444	12.999	56.891	36.035	1.00	59.27	6
		ATOM	1425	С	VAL	A	444	11.043	55.730	32.861	1.00	68.61	6
		ATOM	1426	0	VAL	A	444	9.937	56.210	32.612	1.00	70.60	8
		ATOM	1427	N	GLU	A	445	11.814	55.173	31.935	1.00	70.71	7
	10	ATOM	1428	CA	GLU	A	445	11.457	55.152	30.514	1.00	71.45	6
		ATOM	1429	СВ	GLU	A	445	12.725	55.255	29.664	1.00	72.36	6
		ATOM	1430	CG	GLU	A	445	13.598	56.429	30.022	1,00	40.00	6
		ATOM	1431	CD	GLU	A	445	14.875	56.472	29.239	1.00	40.00	6
		ATOM	1432	OE1	GLU	A	445	15.155	55.565	28.414	1.00	40.00	8
	15	ATOM	1433	OE2		A	445	15.663	57.430	29.430	1.00	40.00	8
		ATOM	1434	C		A	445	10.724	53.912	30.049	1.00	71.46	6
		ATOM	1435	0			445	10.536	53.701	28.844	1.00	73.02	8
		ATOM	1436	N			446	10.301	53.099	30.999		71.12	7
		ATOM	1437	CA			446	9.628	51.899	30.634		70.83	6.
	20	ATOM	1438	СВ			446	10.595	50.719	30.687		71.05	6
		ATOM	1439	SG			446	12.009	50.842	29.573		72.83	16
		ATOM	1440	С			446	8.454	51.671	31.535		71.91	6
		ATOM	1441	Ō			446	8.495	52.014	32.728		72.06	8
		ATOM	1442	N			447	7.372	51.133	30.978		73.12	7
D	25	ATOM	1443	CD			447	7.267	50.764	29.560		72,88	6
ľŰ		ATOM	1444	CA			447	6.150	50.853	31.740		74.22	6
α		ATOM	1445	СВ			447	5.187	50.281	30.714		72.98	6
		ATOM	1446	CG			447	5.875	50.271	29.437		74.77	6
* ec.		ATOM	1447	C			447	6.435	49.843	32.831		75.94	6
4	30	ATOM	1448	0			447	7.181	48.908	32.612		76.67	8
7		ATOM	1449	N			448	5.820	50.002	33.997		76.91	7
31		ATOM	1450	CA			448	6.024	49.066	35.113		78.24	6
		ATOM	1451	СВ			448	5.528	49.734	36.401		81.33	6
Ļ		ATOM	1452	OG1			448	4.105	49.917	36.328	1.00	84.46	8
	35	ATOM	1453	CG2			448	6.192	51.081	36.585		83.51	6
اسا چي		ATOM	1454	С			448	5.113	47.912	34.755	1.00	77.42	6
ů, O		ATOM	1455	0	THR	Α	448	4.915	46.995	35.519	1.00	77.65	8
۳,		ATOM	1456	N	GLU	A	449	4.539	48.021	33.565	1.00	76.29	7
		ATOM	1457	CA	GLU	Α	449	3.630	47.023	33.024	1.00	75.03	6
	40	ATOM	1458	СВ	GLU	A	449	2.600	47.773	32.191	1.00	74.62	6
		ATOM	1459	CG	GLU	A	449	2.145	47.051	31.001	1.00	40.00	б
		MOTA	1460	CD	GLU	A	449	1.297	47.889		1.00	40.00	6
		MOTA	1461	OE1	GLU	A	449	1.479	49.137	30.146	1.00	40.00	8
		ATOM	1462	OE2	GLU	Α	449	0.424	47.322	29.497	1.00	40,00	8
	45	ATOM	1463	C	GLU			4.434	46.036	32.179	1.00	73.49	6
		MOTA	1464	0	GLU			3.882	45.142	31.559	1.00	70.24	8
		ATOM	1465	N	LEU			5.747	46.224	32.161	1.00	70.80	7
		MOTA	1466	CA	LEU	Α	450	6.608	45.347	31.378	1.00	68.82	6
		ATOM	1467	СВ	LEU			7.301	46.154	30.277		71.91	6
	50	ATOM	1468	CG	LEU			6.464	46.819	29.217		76.62	6
		ATOM	1469		LEU			7.337	47.662	28.328		77.95	6
		ATOM	1470		LEU			5.786	45.750	28.415		76.46	6
		ATOM	1471	C	LEU			7.669	44.673	32.243		66.22	6
		ATOM	1472	o	LEU			8.427	43.841	31.752		66.01	8
	55	ATOM	1473	N	PHE			7.705	45.039	33.530		61.96	7
		ATOM	1474	CA	PHE			8.681	44.506	34.480		58.44	6
		ATOM	1475	СВ	PHE			9.041	45.562	35.540		61.34	6
		ATOM	1476	CG	PHE			9.873	46.717	35.008		63.02	6
			_	-				-					

	5	ATOM	1477	CD1	PHE	A	451	9.426	47.507	33.963	1.00	62.92	6
		ATOM	1478	CD2	PHE	A	451	11.089	47.017	35.593	1.00	63.07	6
		ATOM	1479	CE1	PHE	A	451	10.199	48.598	33.521	1.00	65.12	б
		ATOM	1480	CE2	PHE	A	451	11,860	48.102	35.156	1.00	64.66	6
		ATOM	1481	CZ	PHE	A	451	11.410	48.897	34.118	1.00	67.12	6
	10	ATOM	1482	С	PHE	A	451	8.259	43.264	35.260	1.00	56.41	6
		ATOM	1483	0	PHE	A	451	7.641	43.392	36.331	1,00	56.56	8
		MOTA	1484	N			452	8.555	42.045	34.755	1.00	53.28	7
		ATOM	1485	CD			452	9.177	41.689	33.481		50.46	6
		ATOM	1486	CA			452	8.153	40.859	35.543		50.26	6
	15	ATOM	1487	СВ			452	8.739	39.680	34.780		49.19	6
		ATOM	1488	CG			452	9.178	40.206	33.482		45.89	6
		ATOM	1489	C			452	8.770	40.999			49.62	6
		ATOM	1490	ō			452	9.867	41.529	37.094		52.35	8
		ATOM	1491	N			453	8.139	40.425	37.947	•	51.50	7
	20	ATOM	1492	CD			453	7.001	39.542	37.797		49.66	6
		ATOM	1493	CA			453	8.610	40.528	39.323		50.89	6
		ATOM	1494	CB			453	7.675	39.659	40.109		51.49	6
		ATOM	1495	CG			453	6.703	39.141	39.185		50.82	6
		ATOM	1496	C			453	10.015	40.084	39.532		50.99	6
Ö	25	ATOM	1497	o			453	10.876	40.900	39.838		54.17	8
IŪ	20	ATOM	1498	N			454	10.255	38.781	39.423	•	51.21	7
(Ö		ATOM	1499	CA			454	11.585	38.298	39.674		47.17	6
44		ATOM	1500	СВ			454	11.813	36.962	38.975		44.44	6
1.		ATOM	1501	CG			454	13.167	36.375	39,289		41.33	6
ļub	30	ATOM	1502		LEU			13.524	36.638	40.720		35.93	6
14	50	ATOM	1503	CD2				13.169	34.907	38.992		34.79	6
Si		ATOM	1504	C			454	12.541	39.375	39.182		42.25	6
		ATOM	1505	0			454	13.477	39.718	39.886		40.82	8
W		ATOM	1506	N			455	12.270	39.957	38.011		39.29	7
	35	ATOM	1507	CA			455	13.133	41.005	37.473		41.81	6
	30	ATOM	1508	CB			455	12.527	41.592	36.192		47.22	6
Ē		ATOM	1509	CG			455	13.433	42.565	35.467		56.97	6
ŧΩ		ATOM	1510		PHE			14.715	42.189	35.135		57.23	6
		ATOM	1511		PHE			12.999	43.840	35.126		59.40	6
	40	ATOM	1512		PHE			15.557	43.059				6
	. •	ATOM	1513		PHE			13.848	44.716	34.452		61.80	6
		ATOM	1514	CZ	PHE			15.129	44.322	34.126		59.94	6
		ATOM	1515	C	PHE			13.273	42.085	38.534		45.12	6
		ATOM	1516	0	PHE			14.361	42.323	39.034		39.95	8
	45	ATOM	1517	N	LEU			12.155	42.735	38.849		43.92	7
		ATOM	1518	CA	LEU			12.122	43.803	39.840		44.08	6
		ATOM	1519	СВ	LEU			10.680	44.251	40.093		50.20	6
		ATOM	1520	CG	LEU			10.062	45.242	39.144		55.79	6
		ATOM	1521		LEU			8.598	45.432	39.450		54.70	6
	50	ATOM	1522		LEU			10.807	46.548	39.295		53.01	6
		ATOM	1523	C	LEU			12.739	43.355	41.136		44.65	6
		ATOM	1524	0	LEU			13.597	44.022	41.685		45.93	8
		ATOM	1525	N	GLU			11.973	41.761	41.851		44.56	7
		ATOM	1526	CA	GLU			12.475	41.179	43.105		46.37	6
	55	ATOM	1527	C	GLU			14.005	41.236	43.132		43.60	6
		ATOM	1528	0	GLU			14.583	41.724	44.117		42.69	8
		ATOM	1529	СВ	GLU			12.024	39.723	43.223		50.16	6
		ATOM	1530	CG	GLU			11.114	39.476	44.427		20.00	6
						••	,	*****	45.410		1.00	20.00	•

	5	ATOM	1531	CD	GLU	Α	457	10.807	37.994	44.648	1.00	20.00	6
		ATOM	1532	OE1	GLU	A	457	11.673	37.099	44.311	1.00	20.00	8
		ATOM	1533	QE2	GLU	A	457	9.683	37.639	45.172	1.00	20.00	8
		ATOM	1534	N			458	14.928	41.078	41.903	1.00	43.21	7
		ATOM	1535	CA			458	16.412	41.094	41.868	1.00	44.98	6
	10	ATOM	1536	СВ			458	16.881	40.306	40.642		44.83	6
	•	ATOM	1537	CG1			458	18.365	40.106	40.698		49.72	6
		ATOM	1538	CG2	VAL			16.185	38.979	40.558	1.00		6
		ATOM	1539	e			458	17.130	42.420	41.877		42.72	6
		ATOM	1540	Õ	VAL			18.061	42.617	42.658		42.88	8
	15	ATOM	1541	N			459	16.713	43.325	41.010		44.53	7
	1.5	ATOM	1542	CA			459	17.385	44.606	40.892		48.18	6
		ATOM	1543	СB			459	17.281	45.104	39.494		43.60	6
		ATOM	1544	CG	-		459	17.201	44.190	38.547		40.79	6
		ATOM	1545	CD1	PHE			17.325	42.983			41.01	6
	20		1545	CD2	PHE					38.244		39.48	
	20	ATOM						19.153	44.483	38.054			6
		MOTA	1547	CE1	PHE			17.988	42.081	37.441		40.62	6
		ATOM	1548	CE2	PHE			19.814	43.589	37.257		36.87	6
		ATOM	1549	CZ			459	19.233	42.385	36.940		36.39	6
	25	ATOM	1550	C	PHE			16.837	45.648	41.744		52.71	. 6
ıΩ	25	ATOM	1551	0	PHE			17.492	46.682	42.017		51.34	8
IJ		ATOM	1552	N	GLU			15.606	45.422	42.161	1.00		7
Ü		ATOM	1553	CA	GLU			15.066	46.428	42.965		69.33	6
الما		ATOM	1554	CB	GLU			13.552	46.352	43.094		72.95	6
jul		ATOM	1555	CG	GLU			12.978	47.767	42.957		78.35	6
,]	30	ATOM	1556	CD	GLU			12.246	48.261	44.157		82.97	6
		MOTA	1557	OE1				12.471	47.759	45.281		88.28	8
		MOTA	1558		GLU			11.422	49.200	44.017		84.80	8
Į,		ATOM	1559	С	GLU			15.736	46.245	44.272		71.87	6
		ATOM	1560	0	GLU			16.187	45,170	44.691		74.51	. 8
ليرا اليا	35	ATOM	1561	N	ASP			15.790	47,373	44.917	1.00	78.50	7
Ü		ATOM	1562	CA	ASP	A	461	16.415	47.505	46.173	1,00	84.19	6
Ď		MOTA	1563	CB	ASP	A	461	16.394	48.981	46.471	1.00	85.82	6
100		ATOM	1564	CG	ASP			16.801	49.786	45.276	1.00	89.62	6
		MOTA	1565	OD1	ASP	Α	461	16.692	49.344	44.086	1.00	93.00	8
	40	MOTA	1566	OD2	ASP	Α	461	17.239	50.923	45.482	1.00	93.04	8
		ATOM	1567	С	ASP	A	461	15.639	46.703	47.214	1.00	86.80	6
		ATOM	1568	0	ASP	Α	461	16.245	45.748	47.731	1.00	88.70	8
		MOTA	1569	OXT	ASP	Α	461	14.457	47.026	47.451	1.00	88.70	8
		TER											
	45	ATOM	1	CB	LYS	В	211	-20.802	66.251	39.780	1.00	46.72	6
		ATOM	2	CG	LYS	В	211	-19.566	65.345	39.922	1.00	56.48	6
		ATOM	3	CD	LYS	В	211	-18.264	66.114	40.045	1.00	60.93	6
		ATOM	4	CE	LYS	В	211	-18.043	67.067	38.886	1.00	61.95	6
		ATOM	· 5	NZ	LYS	В	211	-19.008	68.224	38.903	1.00	69.93	7
	50	ATOM	6	С	LYS			-22.418	67.861	40.818		35.68	6
		ATOM	7	0	LYS			-23.356	67.113	40.454		33.58	8
		ATOM	8	N	LYS			-20.742	66.675	42.239		45.76	7
		ATOM	9	CA	LYS			-20.998	67.285	40.894		43.42	6
		ATOM	10	N	PRO			-22.610	69.205	41.068		35,64	7
	55	ATOM	11	CD	PRO			-21.526	70.177	41.287		38.60	6
		ATOM	12	CA	PRO			-23.943	69.861	41.036		38.35	6
		ATOM	13	СВ	PRO			-23.545	71.320	41.420		38.95	6
		ATOM	14	CG	PRO			-22.226	71.320	41.551		42.00	6
						_							-

	5	ATOM	15	С	PRO	.В	212	-24.798	69.772	39.807	1.00	38.78	6
		ATOM	16	0	PRO	В	212	-24.350	70.045	38.696	1.00	34.64	8
		ATOM	17	N	GLU	В	213	-26.058	69,424	40.032	1.00	40.31	7
		ATOM	18	CA	GLU	В	213	-27.081	69.290	39.003	1.00	43.87	6
		ATOM	19	CB	GLU	В	213	-27.895	68.004	39.265	1,00	45.16	б
	10	ATOM	20	CG	GLU	В	213	-27.032	66.709	39,286	1.00	47.60	6
		ATOM	21	CD	GLU	В	213	-27.807	65.421	39.199	1.00	50.68	6
		MOTA	22	OE1	GLU	В	213	-28.847	65.244	39.886	1.00	59.18	8
		MOTA	23		GLU		213	-27.382	64.516	38.442	1.00	49.06	8
		ATOM	24	С			213	-27.924	70.576	39,080	1.00	45.96	6
	15	ATOM	25	0	GLU		213	-27.624	71.467	39.859	1.00	43.13	8
		ATOM	26	N	PRO		214	-28.987	70.698	38.308	1.00	46.52	7
		ATOM	27	CD	PRO		214	-29.484	69.635	37.446	•	46.44	6
		MOTA	28	CA	PRO		214	-29.843	71.907	38.302		47.52	6
		ATOM	29	СВ	PRO		214	-30.799	71.639	37.210		45.40	6
	20	MOTA	30	CG	PRO		214	-30.530	70.257	36.805		49.89	6
		ATOM	31	C	PRO		214	-30.574	72.330	39.535		45,70	6
		ATOM	32	o			214	-30.597	71.595	40.483		44.49	8
		ATOM	33	N	THR		215	-31.180	73.515	39.506		45.24	7
47		ATOM	34	CA	THR		215	-31.965	74.036	40.652		49.36	6
	25	MOTA	35	СВ			215	-31.443	75.420	41.091		44.86	6
īŪ	2,5	ATOM	36	OG1				-32.249	76.464	40.534		52.26	8
D		MOTA	37		THR			-30.011	75.617	40.659		39.43	6
<u> </u> ⊸		ATOM	38	C			215	-33.386	74.239	40.114		52.51	6
		ATOM	39	0			215	-33.562	74.868	39.078		53.48	8
1	30	ATOM	40	N		В	216	-34.387	73.741	40.829		58.81	7
4	30	ATOM	41	CA	ASP	В	216	-35.795	73.865	40.435		61.51	6
e;		ATOM	42	CB	ASP		216	-36.674	74.005	41.650		70.57	6
		ATOM	43	CG			216	-37.675	72.981	41.710		78.07	6
ليا		MOTA	44		ASP			-38.228	72.588	40.652		82.31	8
ليا	35	ATOM	45		ASP			-37.983	72.567	42.830		86.55	8
	55	ATOM	46	C			216	-35.920	75.123	39.648		58.42	6
Q		ATOM	47	0			216	-36.847	75.317	38.827		56.85	8
۱Ö		ATOM	48	N	GLU			-34.954	75.979	39.984		54.92	7
		ATOM	49	CA	GLU			-34.851	77.259	39.353		53.37	6
	40	ATOM	50	CB	GLU			-34.104	78.264	40.251		51.02	6
	70	ATOM	51	CG	GLU			-34.151	79.689	39.679		40.00	6
		ATOM	52	CD			217	-34.301	80.745	40.739		40.00	6
		ATOM	53		GLU			-34.089	80.443	41.945		40.00	8
		ATOM	54		GLU			-34.625	81.921	40.411		40.00	8
	45	ATOM	55	C	GLU			-34.232	77.163	37.957		53.55	6
	43	ATOM	56	0	GLU			-34.815	77.612	37.018		54.33	8
		ATOM	57	N	GLU			-33.063	76.572	37.839		49.20	7
		ATOM	58	CA	GLU			-32.318	76.385	36.608		45.94	6
		ATOM	59	CB	GLU			-30.965	75.793	36.981		43.43	6
	50	ATOM	60	CG	GLU			-30.965	76.728	37.801		40.86	6
	50	ATOM	61	CD	GLU			-28.713	76.728	38.072		39.88	6
		ATOM	62		GLU			-28.606	74.967	38.449		37.61	8
			63		GLU			-27.707	76.901	37.945		34.01	8
		ATOM ATOM	64	C	GLU			-33.014	75.475	35.610		44.71	6
	55	ATOM	65	0	GLU			-32.935	75.686	34.405		45.31	8
	55	ATOM	66	N	TRP			-32.933	74.439	36.131		44.02	7
		ATOM	67	CA	TRP			-34.368	73.490	35.290		46.97	6
		ATOM	68	CB	TRP			-35.046	72.408	36.119		48.42	6
		ALON	00	CD	INF	۵	413	-33.040	12.400	JU.113	+.00	30.74	-

	5	ATOM	69	ÇG	TRP	В	219	-34.195	71.230	36.374	1.00	54.61	6
		ATOM	70	CD2	TRP	В	219	-34.048	70.120	35.478	1.00	55.24	6
		ATOM	71	CE2			219	-33.076	69.248	36.063	1.00	53.67	6
		ATOM	72	CE3			219	-34.615	69.771	34.252		54.55	6
		ATOM	73	CD1			219	-33.399	71.019	37.415		55.75	6
	10	ATOM	74	NE1			219	-32.697	69.838	37.236		54.43	7
	. •	ATOM	75	CZZ			219	-32.635	68.075	35.431		52.54	6
		ATOM	76	CZ3			219	-34.214	68.603	33.643		55.17	6
		ATOM	77	CH2	TRP			-33.234	67.758	34.214		55.59	6
		ATOM	78	C			219	-35.409	74.199	34.459		47.32	6
	15	ATOM	79	0			219	-35.561	73.914	33.277		43.56	8
	13	MOTA	80	N			220	-36.126	75.130	35.084		49.91	7
		ATOM	81				220	-37.158	75.130	34.402		53.57	6
				CA									
		ATOM	82	CB			220	-37.811	76.820	35.373		58.18	6
	20	ATOM	83	CG			220	-39.251	76.812	35.221		73.13	6
	20	ATOM	84	CD			220	-39.824	76.858	36.489		80.06	6
		ATOM	85		GLU			-39.485	75.995	37.324		82.12	8
		ATOM	86	OE2				-40.635	77.740	36.718		82.78	8
		ATOM	87	C			220	-36.539	76.645	33.250		50.51	6
j	0.5	ATOM	88	0			220	-37.160	76.793	32.195		49.94	8
Û	25	ATOM	89	N	LEU			-35.312	77.135	33.455		43.71	7
N		ATOM	90	CA	LEU			-34.604	77.884	32.411		42.81	6
Ø		ATOM	91	СВ	LEU			-33.214	78.324	32.865		39.21	6
(11		ATOM	92	CG	LEU			-32.321	78.833	31.754		36.34	6
		ATOM	93	CD1				-33.073	79.843	30.927		36.93	6
-i-	30	ATOM	94	CD2				-31.058	79.446	32.331	1.00	24.18	6
		ATOM	95	С	LEU			-34.454	77.011	31.192	1.00	43.46	б
		MOTA	96	0	LEU	В	221	-34.819	77.406	30.104	1.00	45.25	8
		MOTA	97	N	ILE	В	222	-33.878	75.829	31.398	1.00	39.09	7
LJ L		ATOM	98	CA	ILE	В	222	-33.687	74.857	30.330	1.00	35.47	6
	35	ATOM	99	CB	ILE	В	222	-33.224	73.516	30.871	1.00	33.74	6
;#3		ATOM	100	CG2	ILE	В	222	-33.204	72.488	29.776	1.00	28.86	6
O		ATOM	101	CG1	ILE	В	222	-31.840	73.631	31.493	1.00	33.33	6
'# '		ATOM	102	CD1	ILE	В	222	-31.435	72.419	32.264	1.00	34.85	6
		ATOM	103	С	ILE	В	222	-34.991	74.627	29,598	1.00	34.26	6
	40	ATOM	104	0	ILE	В	222	-35.082	74.832	28.392	1.00	31.90	8
		ATOM	105	N	LYS	В	223	-35.992	74.183	30.346	1.00	39.49	7
		ATOM	106	CA	LYS	В	223	-37.300	73.892	29.785	1.00	44.43	6
		ATOM	107	CB	LYS	В	223	-38.351	73.876	30.882	1.00	50.81	6
		ATOM	108	CG	LYS	В	223	-39.693	73.358	30.411	1.00	62.51	6
	45	ATOM	109	CD	LYS	В	223	-40.795	73.532	31.449		72.22	6
		ATOM	110	CE	LYS	В	223	-42.163	73.249	30.827		74.55	6
		MOTA	111	NZ	LYS			-43.268	73.378	31.837		75.78	7
		ATOM	112	C	LYS			-37.648	74.942	28.755		42.81	6
		ATOM	113	0	LYS			-38.337	74.661	27.796		40.36	8
	50	ATOM	114	N	THR			-37.146	76.156	28.979		39.89	7
		ATOM	115	CA	THR			-37.353	77.293	28.074		39.93	6
		ATOM	116	CB	THR			-36.956	78.609	28.776		40.57	6
		ATOM	117	OG1	THR			-37.646	78.740	30.028		39.27	8
		ATOM	118	CG2				-37.273	79.805	27.893		38.11	6
	55	ATOM	119	C	THR			-36.521	77.094	26.789		39.96	6
	<i>J J</i>	ATOM	120	0	THR			-37.043	76.677	25.756		36.67	8
		ATOM	121	N	VAL			-35.231	77.421	26.888		38.02	7
		ATOM	122	CA	VAL			-34.263	77.295	25.801		38.12	6
		11 OU	+ 6 4	CA	۸٧٦	Ċ	223	-34.203	11.293	23.001	1.00	30.12	O

	5	ATOM	123	CB	VAL	В	225	-32.869	77.015	26.348	1.00	38.19	6
		ATOM	124	CG1	VAL	В	225	-31.863	76.983	25.226	1.00	36.77	6
		ATOM	125	CG2	VAL	В	225	-32.483	78.050	27.353	1.00	41.76	6
		ATOM	126	С	VAL	В	225	-34.656	76.191	24.843	1.00	37.52	6
		ATOM	127	0	VAL	В	225	-34.621	76.364	23.638	1.00	36.77	8
	10	ATOM	128	N			226	-35.005	75.046	25.410	1.00	34.02	7
		ATOM	129	CA	THR	В	226	-35.423	73.887	24.638	1.00	34.67	6
		ATOM	130	СВ			226	-35.677	72.707	25.574		30.56	6
		ATOM	131	OG1			226	-34.432	72.225	26.084		32.20	8
		ATOM	132	CG2				-36.413	71.595	24.874		20.99	6
	15	ATOM	133	C			226	-36.664	74.170	23.803		36.41	6
		ATOM	134	ō			226	-36.633	74.054	22.578		39.64	8
		ATOM	135	N	ALA			-37.746	74.542	24.480		39.20	7
		ATOM	136	CA	ALA			-39.008	74.861	23.822		36.93	6
	•	ATOM	137	СВ	ALA			-39.914	75.631	24.785		38.06	6
	20	ATOM	138	C	ALA			-38.686	75.719	22.608		37,69	6
	20	ATOM	139	o	ALA			-39.317	75.616	21.566		40.94	8
		ATOM	140	N	ALA			-37.677	76.572	22.785		32.86	7
		ATOM	141	CA	ALA			-37.216	77.483	21.753		32.48	6
		ATOM	142	СВ	ALA			-36.252	78.458	22.358		28.25	6
Ö	25	ATOM	143	C	ALA			-36.545	76.704	20.638		36.12	6
īŪ	45	ATOM	144	0	ALA			-37.078	76.586	19.544		37.86	8
Ø		ATOM	145	N	HIS			-35.364	76.175	20.924		33.58	7
j.L		ATOM	146	CA	HIS			-34.611	75.409	19.956		32.97	6
أيها		ATOM	147	CB	HIS			-33.418	74.721	20.597		33.69	6
<u> </u>	30	ATOM	148	CG	HIS			-32.776	73.714	19.715		28.39	6
14	50	ATOM	149		HIS			-32.776	72.384	19.863		28.83	6
Ŧi.		ATOM	150		HIS			-32.336	74.030	18.426		30.47	7
		ATOM	151	CE1				-32.336	74.030	17.855		26.95	6
ندا		ATOM	152	NE2	HIS			-31.867	71.927	18.700		31.27	7
	35	ATOM	153	C	HIS			-35.362	74.352	19.202		38.40	6
٦	55	ATOM	154		HIS			-35.362	74.332	18.045		41.49	8
Ü			155	0	VAL			-36.296	73.688	19.882		38.55	7
ŧΩ		ATOM	156	N	VAL			-30.290	72.634	19.862		40.40	6
		ATOM ATOM	157	CA CB	VAL			-37.744	72.034	20.310		44.68	6
	40		158		VAL			-38.381	70.537	19.637		39.39	6
	40	ATOM						-36.742					_
		ATOM ATOM	159 160		VAL VAL			-38.133	71.311 73.130	21.356 18.284		42.18 44.28	6
		ATOM	161	C	VAL			-38.375	72.505	17.248		45.94	6
		ATOM	162	0	ALA			-38.774	74.240	18.623		45.59	8 7
	45	ATOM	163	N	ALA			-39.820	74.804	17.792		43.39	6
	75			CA	ALA					18.647			
		ATOM	164	CB				-40.736	75.661			45.08	6
		ATOM	165	C	ALA			-39.235	75.636	16.673		48.04	6
		ATOM	166	0	ALA			-39.959	76.128	15.816		49.95	8
	50	ATOM	167	N	THR			-37.914	75.773	16.669		47.26	7
	50	ATOM	168	CA	THR			-37.220	76.563	15.654		43.64	6
		ATOM	169	CB	THR			-36.482	77.746	16.315		41.93	6
		ATOM	170	OG1				-35.385	77.270	17.098		39.10	8
		ATOM	171		THR			-37.423	78.523	17.232		29.80	6
	<i>5 6</i>	ATOM	172	С	THR			-36.194	75.719	14.914		43.97	6
	55	ATOM	173	0	THR			-35.401	76.252	14.155		40.55	8
		ATOM	174	N	ASN			-36.195	74.407	15.157		48.62	7
		ATOM	175	CA	ASN			-35.247	73.511	14.483		58.62	6
		'ATOM	176	СВ	ASN	В	233	-34.621	72.537	15.500	1.00	62.44	6

	5	ATOM	177	CG	ASN	В	233	-33.407	71.812	14.946	1.00	68.35	6
		ATOM	178	OD1	ASN	В	233	-32.569	72.427	14.256	1.00	65.50	8
		ATOM	179	ND2	ASN	В	233	-33.288	70.529	15.265	1.00	74.29	7
		ATOM	180	С	ASN	В	233	-36.033	72.755	13.437	1.00	65.06	6
		ATOM	181	0	ASN			-36.950	72.005	13.754		69.47	8
	10	ATOM	182	N	ALA			-35.674	72.986	12.182		68.80	7
	10	ATOM	183	CA	ALA			-36.352	72.376	11.036		70.98	6
		ATOM	184	CB	ALA			-35.585	72.701	9.769		71.43	6
				C				·					
		MOTA	185		ALA			-36.556	70.880	11.111		73.83	6
	1.5	ATOM	186	0	ALA			-35.677	70.142	11.501			8
	15	ATOM	187	N	GLN			-37.754		10.717		75.07	7
		ATOM	188	CA	GLN			-38.149	69.095	10.690		76.32	6
		ATOM	189	CB	GLN			-37.468	68.365	9.533		76.98	б
		ATOM	190		GLN			-38.120	68.540	8.170	1.00	77.07	6
		ATOM	191	CD	GLN	В	235	-38.572	69.940	7.909	1.00	80.85	6
	20	ATOM	192	OE1	GLN	В	235	-39.575	70.401	8.491	1.00	82.01	8
		ATOM	193	NE2	GLN	В	235	-37.862	70.620	7.040	1.00	78.80	7
		ATOM	194	С	GLN	В	235	-37.904	68.331	11.953	1.00	77.15	6
		ATOM	195	0	GLN	В	235	-38.087	67.137	11.947	1.00	76.06	8
		ATOM	196	N	GLY	В	236	-37.511	68.985	13.039	1.00	77.46	7
D	25	ATOM	197	CA	GLY			-37.304	68.263	14.288		78.37	6
ľŪ		ATOM	198	С	GLY			-36.717	66.882	14.217		79.43	6
Ü		ATOM	199	ō	GLY			-35.717	66.650	13.542		79.47	8
ļΨ		ATOM	200	N	SER			-37.420	66.007	14.943		77.98	7
·~!		ATOM	201	CA	SER			-37.117	64.600	15.092		76.49	6
4	30	ATOM	202	CB	SER			-38.118	63.953	16.066		76.46	6
1	50	ATOM	203	C	SER			-37.181	63.895	13.737		75.35	6
Ef				0									
		MOTA	204		SER			-36.493	62.911	13.524		75.47	8
لدا		ATOM	205	N	HIS			-38.004	64.443	12.845		75.56	7
	3.5	ATOM	206	CA			238	-38.293	63,926	11.519		75.46	6
	35	ATOM	207	CB			238	-39.663	64.397	11.096		75.85	6
Ð		MOTA	208	С	HIS			-37.369	64.216	10.380		74.10	6
ō		MOTA	209	0	HIS			-37.747	64.135	9.222		75.34	8
		ATOM	210	N	TRP		239	-36.127	64.427	10.651		73.39	7
		ATOM	211	CA	TRP			-35.345	64.786	9.519		74.02	6
	40	MOTA	212	CB	TRP			-34.121	65.542	9.934		81.77	6
		MOTA	213	CG	TRP			-33.085	64.786	10.737		89.67	6
		ATOM	214		TRP			-31.727	64.530	10.302	1.00	93.19	6
		MOTA	215		TRP			-31.069	63.848	11.393	1.00	95.46	6
		ATOM	216	CE3	TRP	В	239	-30.949	64.941	9.196	1.00	95.35	6
	45	ATOM	217	CD1	TRP	В	239	-33.237	64.180	11.926	1.00	94.16	6
		ATOM	218	NE1	TRP	В	239	-32.022	63.631	12.347	1.00	97.48	7
		ATOM	219	CZ2	TRP	В	239	-29.706	63.475	11.348	1.00	96.23	6
		ATOM	220	CZ3	TRP	В	239	-29.613	64.533	9.128	1.00	96.75	6
		ATOM	221		TRP			-28.978	63.870	10.215		97.32	6
	50	ATOM	222	С	TRP			-34.994	63.722	8.539		70.77	6
		ATOM	223	0	TRP			-35.423	63.772	7.388		71.70	8
		ATOM	224	N	LYS			-34.165	62.791	8.955		67.10	7
		ATOM	225	CA	LYS			-33.724	61.744	8.077		65.63	6
		ATOM	226	СВ	LYS			-33.321	60.539	8.906		66.65	6
	55	ATOM	227	CG	LYS			-32.210	60.824	9.905		69.83	6
		ATOM	228	CD	LYS			-31.759	59.553	10.602		71.49	6
		ATOM	229	CE	LYS I			-30.576	59.843	11.493		71.49	6
		ATOM	230										7
		A T OLI	230	NZ	LYS 1	0	2 4 U	-30.106	58.604	12.157	1.00	72.23	,

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	5	MOTA	231	С	LYS	В	240	-34.719	61.331	6.996		66.19	6
		ATOM	232	0	LYS	B	240	-34.321	60.673	6.031	1.00	65.20	8
		ATOM	233	N	ASN	В	241	-35.986	61.727	7.139	1.00	66.69	7
		ATOM	234	CA	ASN		241	-37.031	61.393	6.171		67.53	6
									60.846				
		MOTA	235	CB	ASN		241	-38.240		6.915	1.00	67.98	6
	10	ATOM	236	CG	ASN		241	-37.966	59.479	7.544	1.00	70.19	6
		ATOM	237	ODI	ASN	B	241	-37.561	58.526	6.845	1.00	71.37	8
		ATOM	238	ND2	ASN	В	241	-38.205	59,370	8,836	1.00	71.48	7
		ATOM	239	C			241	-37.496	62.532	5.255	1.00	66.62	6
								•					8
		ATOM	240	0	ASN			-38.504	62.395	4.578	1.00	64.76	
	15	ATOM	241	N	LYS	В	242 ⁻	-36.753	63.633	5.209	1.00	66.86	7
		ATOM	242	CA	LYS	В	242	-37.096	64.772	4.362	1.00	67.46	6
		ATOM	243	CB	LYS	В	242	-37.501	65.948	5.258	1.00	67.93	6
		ATOM	244	CG	LYS			-38.746	65.684	6.076		71.52	6
		ATOM	245	CD	LYS		242	-40.007	65.528	5.215		74.32	6
	20												
	20	MOTA	246	ÇE	ĻYS		242	-40.416	66.852	4.564		74.41	6
		ATOM	247	NZ	LYS	В	242	-40.657	67.941	5.575	1.00	74.44	7
		ATOM	248	С	LYS	В	242	-35.826	65.081	3.592	1.00	66.28	6
		ATOM	249	0	LYS	В	242	-35.814	65.799	2,601	1.00	67.61	8
		ATOM	250	N			243	-34.763	64.485	4.112	1.00	64.19	7
Ď	25												
īŪ	25	ATOM	251	CA			243	-33.410	64.577	3.591	1.00	62.43	6
		MOTA	252	CB			243	-32.599	63.547	4.390	1.00	60.12	6
Ď		MOTA	253	CG	ARG	В	243	-31.128	63.558	4.171	1.00	40.00	6
ļah		ATOM	254	CD	ARG	В	243	-30.335	62.888	5.319	1.00	40.00	6
1		ATOM	255	NE	ARG			-30.269	61.428	5.296	1.00	40.00	7
, . .	30	ATOM	256	CZ	ARG			-29.384	60.724	6.009	1.00		6
٠.	30												
£1		MOTA	257	NH1	ARG			-28.510	61.357	6.798	1.00		7
		ATOM	258	NH2	ARG			-29.355	59.401	5.908	1.00	40.00	7
IJ.		ATOM	259	С	ARG	В	243	-33.408	64.252	2.100	1.00	62.97	6
		ATOM	260	0	ARG	В	243	-33.690	63.122	1.722	1.00	63.96	8
ليا تا	35	ATOM	261	N	LYS		244	-33.105	65.245	1.270		62.41	7
	,,,	ATOM	262	CA	LYS		244	-33.054	65.053	-0.179		61.57	6
١Ō													
·Ø		ATOM	263	CB	LYS		244	-34.104	65.941	-0.866	1.00	63.68	6
		ATOM	264	CG	LYS	В	244	-35.527	65.731	-0.337		71.29	6
		MOTA	265	CD	LYS	В	244	-36.566	66.549	-1.107	1.00	73.83	6
	40	ATOM	266	CE	LYS	В	244	-36.219	68.045	-1.138	1.00	74.71	6
		ATOM	267	NZ	LYS			-36.169	68,689	0.219		73.32	7
		ATOM	268	C	LYS			-31.658	65.402	-0.670		59.30	6
		MOTA	269	0	LYS			-31.317	66.570	-0.852		56.34	8
		ATOM	270	N	PHE			-30,858	64.359	-0.875		57.06	7
	45	MOTA	271	CA	PHE	В	245	-29.462	64.525	-1.305	1,00	59.01	6
		ATOM	272	CB	PHE	В	245	-28.786	63.179	-1.478	1.00	59.62	6
		ATOM	273	CG	PHE	В	245	-28.991	62.288	-0.339		66.60	6
		ATOM	274		PHE			-30.200	61.669	-0.172		67.17	6
	50	ATOM	275		PHE			-28.012	62.117	0.593		69.25	6
	50	ATOM	276		PHE			-30.404	60.882	0.911		69.92	6
		ATOM	277	CE2	PHE	В	245	-28.229	61.329	1.669	1,00	70.50	6
		ATOM	278	CZ	PHE	В	245	-29.418	60.714	1.830	1,00	70.89	6
		ATOM	279	С	PHE			-29.301	65.282	-2.592		60.68	6
		ATOM	280	Ö	PHE			-29.859	64.911	-3.619		62.37	8
	55												
	55	ATOM	281	N	LEU			-28.495	66.336	-2.505		60.10	7
		MOTA	282	CA	LEU			-28.201	67.199	-3.631		59.44	6
		ATOM	283	CB	LEU	В	246	-27.248	68.332	-3.231	1.00	57.43	6
		ATOM	284	CG	LEU	В	246	-27.118	69.474	-4.207	1.00	54.41	6
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	5	ATOM	285	CD1	LEU	В	246	-28.481	70.137	-4.349	1.00	52.43	6
		ATOM	286	CD2	LEU	В	246	-26.112	70.470	-3.719	1.00	51.69	6
		ATOM	287	C	LEŲ	В	246	-27.585	66.379	-4.740	1.00	62.05	6
		ATOM	288	0	LEU	В	246	-26.789	65.446	-4.486	1.00	59.85	8
		ATOM	289	N			247	-27.930	66.693	-5.984	1.00	63.33	7
	10	ATOM	290	CD			247	-28.839	67.781	-6.363		64.44	6
	-	ATOM	291	CA	PRO		247	-27.391	65.958	-7.130		63.56	6
		ATOM	292	CB	PRO		247	-27.976	66.675	-8.340		64.42	6
		ATOM	293	CG			247	-28.873	67.714	-7.841	•	64.90	6
		ATOM	294	C			247	-25.866	65.947	-7.143		61.94	6
	15	ATOM	295	0	PRO		247	-25.223	66.944	-6.856		61.60	8
	13	ATOM	296	N			248	-25.333	64.771	-7.478		61.33	7
		ATOM	297	CA	GLU		248	-23.896	64.516	-7.590		63.50	6
		ATOM	298	CB			248		63.154			66.94	6
								-23.630		-8.248			
	20	ATOM	299	CG			248	-22.168	62.953	-8.713		68.70	б 6
	20	ATOM	300	CD	GLU			-21.898	61.745	-9.580		40.00	
		ATOM	301	OE1				-22.863		-10.035		40.00	8
		ATOM	302	OE2				-20.709	61.460	-9.838		40.00	8
1220		ATOM	303	С	GLU			-23.158	65.571	-8.415		64.19	6
		ATOM	304	0	GLU			-22.056	65.975	-8.066		65.56	8
i <u>D</u>	25	ATOM	305	N	ASP			-23.796	66.019	-9.498		64.36	7
IJ		ATOM	306	CA	ASP		249	-23.254		-10.436		63.33	6
1.U		ATOM	307	CB	ASP			-24.122		-11.698		62.97	6
, r ^{ef}		ATOM	308	CG	ASP			-25.437		-11.489		64.63	6
ب خدا		ATOM	309		ASP			-26.235		-10.629		64.84	8
, J	30	ATOM	310		ASP			-25.726		-12.189		66.52	8
		ATOM	311	C	ASP	В	249	-23.068	68.413	-9.960	1.00	64.31	б
		ATOM	312	0	ASP	В	249	-22.117	69.084	-10.355	1.00	64.73	8
1.0		ATOM	313	N	ILE	В	250	-23.987	68.892	-9.136	1.00	63.09	7
		ATOM	314	CA	ILE	В	250	-23.921	70.281	-8.660	1.00	64.39	6
	35	ATOM	315	CB	ILE	В	250	-25.124	70.575	-7.798	1.00	65.79	6
Ü		ATOM	316	CG2	ILE	В	250	-25.559	72.041	-7.858	1.00	64.78	6
Ō		ATOM	317	CG1	ILE	В	250	-26.348	69.752	-8.206	1,00	65.28	6
		ATOM	318	CD1	ILE	В	250	-27.671	70.444	-7.887	1.00	65.08	6
		ATOM	319	C	ILE	В	250	-22.815	70.488	-7.714	1.00	65.21	6
	40	ATOM	320	0	ILE	В	250	-22.754	69.847	-6.656	1.00	64.05	8
		ATOM	321	N	GLY	В	251	-22.024	71.392	-8.103	1.00	65.48	7
	•	ATOM	322	CA	GLY			-20.873	71.721	-7.342		67.32	6
		ATOM	323	C	GLY		•	-19.808	70.806	-7.800		68.52	6
		ATOM	324	0	GLY			-19.791	70.548	-9.025		65.49	8
	45	ATOM	325	N	GLN			-19.074	70.440	-6.799		72.26	7
		ATOM	326	CA	GLN			-17.949	69.540	-6.883		74.10	6
		ATOM	327	СВ	GLN			-18.460	68.098	-6.723		75.82	6
		ATOM	328	CG	GLN			-17.367	67.088	-6,356		77.81	6
		ATOM	329	CD	GLN			-17.924	65.759	-5.824		79.38	6
	50	ATOM	330	OE1				-18.615	65.042	-6.549		80.55	8
	50	ATOM	331	NE2				-17.661	65.380	-4.586		78.12	7
		ATOM	332	C	GLN			-17.051	69.727			77.17	6
		ATOM	333	0	GLN			-17.236	70.009	-8.258 -9.227		76.50	8
		ATOM	334		ALA			-17.977	69.795				7
	55	ATOM		N					70.766	-8.279		80.78	
	<i></i>		335	CA	ALA			-14.615		-8.544 -7.255		83.70	6
		ATOM	336	CB	ALA			-13.794	70.914	-7.255 -9.731		83.23	6
		ATOM	337	С	ALA			-13.605	70.732	-9.731 -10.171		85.59	6
		MOTA	338	0	ALA	B	253	-13.186	09.691	-10.171	1.00	85.69	8

	5	ATOM	339	N	PRO	В	254	-13.223	71.944	-10.246	1.00	35.05	7
		MOTA	340	CD	PRO	B	254	-13.798	73.217	-9.752	1.00	33.97	6
		ATOM	341	CA	PRO	В	254	-12.266	72.177	-11.351	1.00	35.89	6
		ATOM	342	СВ	PRO	В	254	-12.275	73.710	-11.596	1.00	33.94	6
		ATOM	343	CG	PRO	В	254	-13.222	74.277	-10.688	1.00	33.31	6
	10	ATOM	344	C	PRO	В	254	-10.827	71.665	-11.121	1.00	37.75	6
		ATOM	345	0	PRO	В	254	-10.379	71.426	-10.009	1.00	38.78	8
		TER											
		ATOM	1	N	GLY	В	261	-8.238	79.356	-2.979	1.00	40.00	7
		ATOM	2	CA			261	-9.314	78.411	-3.005		40.00	6
	15	ATOM	3	C			261	-10.206	78.717	-4.355		40.00	6
		ATOM	4	0	GLY	В	261	-11.372	79.141	-4.256		40.00	8
		ATOM	5	N			262	-9.565	78.527	-5.597		40.00	7
		ATOM	6	CA			262	-10.136	78.609	-7.087		40.00	6
		ATOM	7	С			262	-10.849	79.966	-7.577		40.00	6
	20	ATOM	8	Ō			262	-10.200	81.044	-7.543		40.00	8
		ATOM	9	N			263	-12.086	79.687	-8.124		61.71	7
		ATOM	10	CA			263	-13.323	80.536	-8.428		64.36	6
		ATOM	11	C			263	-14.367	79.750	-7.614		63.41	6
		ATOM	12	Ō			263	-14.102	78.579			61.93	8
ā	25	ATOM	13	СВ			263	-13.901	80.405	-9.876		63.50	6
IU	-	ATOM	14	CG			263	-13.487		-10.881		20.00	6
Ü		ATOM	15	CD			263	-14.016		-10.612		20.00	6
الله الله		ATOM	16	CE			263	-13.641		-11.742		20.00	6
14		ATOM	17	NZ			263	-13.680		-11.341		20.00	7
- -	30	ATOM	18	N	VAL			-15.489	80.335	-7.307		61.15	7
, e ²		ATOM	19	CA.	VAL			-16.616	79.632			59.46	6
!! :==		ATOM	20	СВ	VAL			-17.574	80.703			59.03	6
		ATOM	21	CG1				-18.479	80.215	-4.979		53.79	6
IJ		ATOM	22		VAL			-16.847	81.938	-5.562		55.32	6
	35	ATOM	23	С	VAL			-17.330	78.824	-7.700		60.96	6
1l		ATOM	24	0	VAL			-16.940	78.873	-8.873		62.13	8
		ATOM	25	N	ASP			-18.378	78.098	-7.340		62.59	7
بط:		ATOM	26	CA	ASP			-19.175	77.339	-8.312		64.95	6
		ATOM	27	СВ	ASP			-18.796	75.851	-8.270		64.32	6
	40	ATOM	28	CG	ASP			-19.928	75.022	-8.584		67.70	6
		ATOM	29		ASP			-20.856	75.062	-9.295		72.59	8
		ATOM	30		ASP			-20.370	73.959	-8.310		68.84	8
		ATOM	31	С	ASP	В	265	-20.658	77.614	-8.016	1.00	65.64	6
		ATOM	32	0	ASP			-21.342	76.895	-7.313		68.81	8
	45	ATOM	33	N	LEU	В	266	-21.066	78.737	-8.588	1.00	65.12	7
		ATOM	34	CA	LEU	В	266	-22.385	79.330	-8.499		63.40	6
		ATOM	35	СВ	LEU	В	266	-22.429	80.448	-9.542		67.34	6
		ATOM	36	CG	LEU	В	266	-21.295	81.459	-9.399		69.35	6
		ATOM	37		LEU			-20.983		-10.712		68.24	6
	50	ATOM	38		LEU			-21.663	82.461	-8.344	1.00	70.47	6
		ATOM	39	С	LEU	В	266	-23.673	78.507	-8.602		59.67	6
		ATOM	40	0	LEU			-24.684	78.890	-7.988		53.35	8
		ATOM	41	N	GLU			-23.677	77.416	-9.371	1.00	58.01	7
		ATOM	42	CA	GLU		267	-24.901	76.640	-9.449		58.34	6
	55	ATOM	43	СВ	GLU			-24.752		-10.368		59.21	6
		ATOM	44	ÇG	GLU			-25.979		-10.268		62.89	6
		ATOM	45	CD	GLU			-26.048		-11.328		67.66	6
		ATOM	46		GLU			-25.076		-11.512		69.95	8

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	5	ATOM	101	CA	LYS	В	274	-31.983	79.774	-2.147	1.00	54.53	6
		ATOM	102	CB			274	-32.133	78.724	-3.232		54.36	6
		MOTA	103	С	LYS	В	274	-32,819	79.396	-0.931	1.00	56.88	6
		MOTA	104	0	LYS	В	274	-34.025	79.624	-0.906	1.00	57.98	8
		MOTA	105	N	ILE	В	275	-32.151	78.820	0.076	1.00	56.48	7
	10	MOTA	106	CA	ILE	В	275	-32.791	78.381	1.332	1.00	52.64	· 6
		ATOM	107	CB	ILE	В	275	-32.638	76.863	1.519	1.00	49.15	6
		ATOM	108	CG2	ILE	В	275	-33.505	76.105	0.529	1.00	47.42	6
		ATOM	109	CG1	ILE	В	275	-31.188	76.441	1.343	1.00	45.31	6
		MOTA	110	CD1	ILE	В	275	-30.990	74.952	1.391	1.00	37.22	6
	15	ATOM	111	С	ILE	В	275	-32.241	79.086	2.574	1.00	51.78	6
		ATOM	112	0	ILE	В	275	-32.858	79.049	3.622	1.00	49.80	8
		ATOM	113	N	ILE	В	276	-31.071	79.709	2.435	1.00	51.76	7
		MOTA	114	CA	ILE	В	276	-30.410	80.409	3.533	1.00	52.58	6
		ATOM	115	СВ	ILE	В	276	-29.145	81.110	3.042	1.00	55.04	6
	20	ATOM	116	CG2	ILE	В	276	-29.486	82.172	2.017	1.00	53.28	6
		ATOM	117	CG1	ILE	В	276	-28.396	81.786	4.203	1.00	57.31	6
		ATOM	118	CD1	ILE	В	276	-27.862	80.854	5.231		60.32	6
		ATOM	119	С			276	-31.282	81.461	4.237		50.70	6
		ATOM	120	0	ILE			-31.015	81.817	5.385		55.55	8
Đ	25	ATOM	121	N	THR			-32.322	81.953	3.568		47.33	7
U		ATOM	122	CA			277	-33.174	82.968	4.141		42.59	6
Ü,		ATOM	123	CB			277	-34.042	83.632	3.048		44.97	6
14		ATOM	124	OG1			277	-33.202	84.145	2.001		46.38	8
		ATOM	125	CG2			277	-34.856	84.781	3.653		37.17	6
<u> </u>	30	ATOM	126	С			277	-34.069	82.447	5.267		39.84	6
4		ATOM	127	0	THR		277	-34.083	83.026	6.375		40.55	8
6i		ATOM	128	N	PRO		278	-34.832	81.385	5.017		38.20	7
		ATOM	129	CD	PRO		278	-34.925	80.666	3.747		36.34	6
ليدا		ATOM	130	CA			278	-35.711	80.834	6.059		36.63	6
ليا	35	ATOM	131	СВ	PRO		278	-36.475	79.715	5.357		32.95	6
		ATOM	132	CG			278	-35.833	79.516	4.056		35.75	6
		ATOM	133	С			278	-34.892	80.324	7.220		38.60	6
! [.		ATOM	134	0			278	-35.372	80.157	8.331		37.67	8
		ATOM	135	N			279	-33.636	80.040	6.927		37.05	7
	40	ATOM	136	CA			279		79.525		1,00		6
		ATOM	137	CB	ALA			-31.391	79.195	7.205		30.56	6
		ATOM	138	С	ALA			-32.447		8.991		33.47	6
		ATOM	139	0	ALA			-32.623	80.238	10.158		33.74	8
		ATOM	140	N	ILE			-32.010	81.728	8.577		29.96	7
	45	ATOM	141	CA			280	-31.728	82.809	9.501		25.94	6
		ATOM	142	СВ	ILE			-31.190	84.040	8.754		26.95	6
		ATOM	143		ILE			-30.881	85.149	9.715		15.40	6
		ATOM	144		ILE			-29.904	83.696	8.007		26.73	6
		ATOM	145		ILE			-29.255	84.878	7.362		34.31	6
	50	ATOM	146	С	ILE			-32.964	83.172	10.310		31.39	6
		ATOM	147	0	ILE			-32.882	83.378	11.522		35.69	8
		ATOM	148	N	THR			-34.113	83.233	9.647		30.90	7
		ATOM	149.		THR			-35.361	83.586	10.328		33.49	6
		ATOM	150	СВ	THR			-36.598	83.396	9.419		37.18	6
	55	ATOM	151	OG1	THR			-36.703		9.005		46.48	8
		ATOM	152		THR			-36.525	84.289	8.198		32.85	6
		ATOM	153	C	THR			-35.523		11.556		29.94	6
		ATOM	154	0	THR			-35.855		12.634		25.55	8
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	5	ATOM	155	N	ARG	В	282	-35.296	81.405	11.378	1.00	32.70	7
		ATOM	156	CA	ARG	В	282	-35.439	80.449	12.475	1.00	34.27	6
		ATOM	157	CB	ARG	В	282	-34.999	79.060	12.020	1.00	33.78	6
		ATOM	158	CG	ARG			-35.986	77.944	12.280	1.00	45.15	6
		ATOM	159	CD	ARG			-36.701	77.514	11.015		58.24	6
	10	ATOM	160	NE			282	-35.771	77.153	9.969		68.41	7
	10		161	CZ			282	-34.862	76.200	10.098		72.31	6
		MOTA											7
		ATOM	162	NH1	ARG		282	-34.779	75.502	11.232		77.89	
		ATOM	163	NH2	ARG			-34.022	75.963	9.096		69.25	7
		ATOM	164	С	ARG			-34.556	80.919	13.622		34.81	6
	15	ATOM	165	0	ARG			-35.008	81.034	14.753		36.03	8
		MOTA	166	N	VAL	В	283	-33.288	81.183	13.289		31.71	7
		MOTA	167	CA	VAL	В	283	-32.304	81.667	14.249	1.00	30.16	6
		MOTA	168	CB	VAL	В	283	-30.993	82.029	13.559	1.00	29.00	6
		ATOM	169	CG1	VAL	В	283	-30.015	82.617	14.557	1.00	28.64	6
	20	ATOM	170	CG2	VAL	В	283	-30.385	80.816	12.915	1.00	28,28	6
		ATOM	171	C	VAL			-32.848	82.884	14.994	1.00	32.50	6
		ATOM	172	Ō	VAL			-32.619	83.057	16.185		33.48	8
		ATOM	173	N	VAL		284	-33.573	83.728	14.265		30.96	7
		ATOM	174	CA	VAL		284	-34.177	84.925	14.844		29.14	6
Ö	25	ATOM	175	CB	VAL		284	-34.672	85.892	13.751		31.27	6
IŪ	25									14.371		24.21	6
Ŭ		ATOM	176		VAL			-35.278	87.129				
int.		ATOM	177		VAL			-33.554	86.270	12.812		30.51	6
		ATOM	178	C	VAL			-35.336	84.498	15.747		28.89	6
ļ.		ATOM	179	0	VAL			-35.491	84.994	16.860		27.29	8
	30	ATOM	180	N	ASP			-36.143	83.564	15.250		28.76	7
11		ATOM	181	CA	ASP			-37.299	83.057	15.983		35.32	6
		ATOM	182	CB	ASP	В	285	-38.129	82.098	15.111	1.00	33.29	6
Ü		ATOM	183	CG	ASP	В	285	-38.881	82.795	14.013	1.00	38.15	6
		ATOM	184	OD1	ASP	В	285	-39.660	83.729	14.305	1.00	34.70	8
	35	ATOM	185	OD2	ASP	В	285	-38.741	82.406	12.821	1.00	34.43	8
Ö		ATOM	186	С	ASP	В	285	-36.863	82.339	17.257	1.00	36.70	6
Ď		ATOM	187	0			285	-37.606	82.304	18.237	1.00	37.96	8
164		ATOM	188	N			286	-35.663	81.755	17.235		35.96	7
		ATOM	189	CA			286	-35.134	81.053	18.401		37.10	6
	40	ATOM	190	СВ	PHE			-33.870	80.262	18.052		37.97	6
		ATOM	191	CG	PHE			-33.079	79.818	19.258		36.50	6
		ATOM	192		PHE			-33.704	79.168	20.294		36.75	6
			193					-31.721	80.063	19.343		33.83	6
		ATOM			PHE								
	4.5	ATOM	194		PHE			-32.987	78.769	21.401		39.55	6
	45	ATOM	195		PHE			-30.997	79.662	20.456		38.08	6
		ATOM	196	CZ	PHE			-31.632	79.013	21.486		34.44	6
		ATOM	197	С	PHE			-34.808	82.023	19.504		36.83	6
		ATOM	198	0	PHE	В	286	-35.246	81.845	20.631		35.61	8
		ATOM	199	N	ALA	В	287	-34.005	83.027	19.169	1.00	37.33	7
	50	ATOM	200	CA	ALA	В	287	-33.599	84.035	20.132	1.00	36.34	6
		ATOM	201	CB	ALA	В	287	-32.644	85.008	19.469	1.00	36.40	6
		ATOM	202	С	ALA			-34.831	84.769	20.657	1.00	38.76	6
		ATOM	203	0	ALA			-34.882	85.193	21.814		41.98	8
		ATOM	204	N	LYS			-35.820	84.912	19.779		38.28	7
	55	ATOM	205	CA	LYS			-37.066	85.584	20.112		45.26	6
		ATOM	206	CB	LYS			-37.983	85.690	18.898		48.35	6
		ATOM	207	CG	LYS			-37.577	86.756	17.916		51.43	6
		ATOM	208	CD	LYS			-38.806	87.359	17.226		60.23	6
		013	200			J	200	33.000	57.955	11.220	4.00	JU. 2J	•

5 ATOM 209 CE LYS B 288		
ATOM 211 C	1.00 62.81	6
ATOM	1,00 64,69	7
ATOM	1.00 43.31	6
10	1.00 45.66	8
ATOM 215 CB LYS B 269 -38.554 81.418 21.845 ATOM 216 CG LYS B 269 -39.438 81.368 20.589 ATOM 217 CD LYS B 269 -40.093 80.010 20.422 ATOM 218 CE LYS B 269 -41.025 79.987 19.223 ATOM 220 C LYS B 269 -42.391 80.476 19.512 ATOM 221 O LYS B 269 -42.391 80.476 19.512 ATOM 222 N LEU B 290 -36.365 83.682 23.661 ATOM 223 CA LEU B 290 -36.365 83.682 23.661 ATOM 224 CB LEU B 290 -34.053 83.699 24.854 ATOM 225 CG LEU B 290 -33.640 82.240 23.767 ATOM 227 CD2 LEU B 290 -34.013 81.040 24.667 ATOM 228 C LEU B 290 -35.832 84.915 25.577 ATOM 229 O LEU B 290 -35.832 84.915 25.577 ATOM 220 N PRO B 291 -36.462 84.840 26.765 ATOM 231 CD PRO B 291 -36.662 84.840 26.765 ATOM 232 CA PRO B 291 -36.782 86.069 27.501 ATOM 233 CB PRO B 291 -37.376 85.574 28.811 ATOM 233 CB PRO B 291 -37.376 85.574 28.811 ATOM 234 CG PRO B 291 -35.570 87.002 27.714 ATOM 235 C PRO B 291 -35.570 87.002 27.714 ATOM 236 O PRO B 291 -35.570 87.002 27.714 ATOM 237 N MET B 292 -32.147 86.476 28.554 ATOM 239 CB MET B 292 -32.149 86.376 28.955 ATOM 240 CG MET B 292 -33.296 87.286 28.545 ATOM 241 SD MET B 292 -32.149 86.376 28.955 ATOM 242 CE MET B 292 -31.797 83.212 31.701 ATOM 243 C MET B 292 -31.797 83.212 31.701 ATOM 244 O MET B 292 -32.288 89.098 27.420 ATOM 245 N PHE B 293 -33.3296 87.329 23.707 ATOM 246 CA PHE B 293 -33.3296 87.329 37.740 ATOM 247 CB PHE B 293 -33.3296 87.329 37.740 ATOM 248 CG PHE B 293 -33.3296 87.329 37.740 ATOM 247 CB PHE B 293 -33.322 87.604 26.143 ATOM 248 CG PHE B 293 -33.322 87.604 26.143 ATOM 248 CG PHE B 293 -33.322 87.604 26.143 ATOM 247 CB PHE B 293 -33.327 87.909 22.365 ATOM 250 CD2 PHE B 293 -33.367 89.909 22.365 ATOM 250 CD2 PHE B 293 -33.367 89.909 22.365 ATOM 250 CP2 PHE B 293 -33.873 89.518 24.740 ATOM 250 CP2 PHE B 293 -33.873 89.518 24.746 ATOM 250 CP2 PHE B 293 -33.873 89.518 24.746 ATOM 250 CP2 PHE B 293 -33.873 89.519 24.766 ATOM 250 CP2 PHE B 293 -33.873 89.519 24.766 ATOM 250 CP2 PHE B 293 -33.873 89.518 24.746 ATOM 250 CP3 PHE B 293 -33.867 89.909 22.365 ATOM 250 CP3 PHE B 293 -33.869 90.626 24.579 ATOM 250 CP3 PHE B	1.00 41.70	7
ATOM	1.00 40.67	б
ATOM	1.00 42.25	6
ATOM 218 CE LYS B 289 -41.025 79.987 19.223 15	1.00 39.53	6
15 ATOM 219 NZ LYS B 289 -42.391 80.476 19.512 ATOM 220 C LYS B 289 -37.555 82.871 23.6661 ATOM 221 O LYS B 289 -38.057 82.366 24.657 ATOM 222 N LEU B 290 -36.365 83.482 23.6611 ATOM 223 CA LEU B 290 -36.365 83.482 23.6611 ATOM 224 CB LEU B 290 -34.053 83.599 24.854 ATOM 225 CG LEU B 290 -33.640 82.240 23.767 ATOM 226 CD1 LEU B 290 -33.640 82.240 23.767 ATOM 227 CD2 LEU B 290 -34.013 81.040 24.650 ATOM 228 C LEU B 290 -35.832 84.915 25.577 ATOM 229 O LEU B 290 -35.832 84.915 25.577 ATOM 230 N PRO B 291 -36.642 84.840 26.765 ATOM 231 CD PRO B 291 -36.642 84.840 26.765 ATOM 233 CB PRO B 291 -36.642 84.840 26.765 ATOM 233 CB PRO B 291 -36.6782 86.069 27.501 ATOM 233 CB PRO B 291 -36.782 86.069 27.501 ATOM 233 CB PRO B 291 -37.549 84.110 28.6693 ATOM 235 C PRO B 291 -35.570 87.002 27.714 ATOM 236 C PRO B 291 -35.570 87.002 27.714 ATOM 237 N MET B 292 -33.5479 86.376 28.975 ATOM 240 CG MET B 292 -32.553 85.302 29.970 ATOM 241 SD MET B 292 -32.149 86.376 28.975 ATOM 242 CE MET B 292 -32.255 88.197 27.403 ATOM 243 C MET B 292 -32.255 88.197 27.403 ATOM 244 C MET B 292 -32.255 88.077 27.315 ATOM 240 CG MET B 292 -32.255 88.077 27.315 ATOM 241 SD MET B 292 -32.255 88.077 27.315 ATOM 242 CE MET B 292 -32.288 89.098 27.404 ATOM 243 C MET B 292 -32.289 89.098 27.404 ATOM 244 C MET B 292 -32.289 89.098 27.404 ATOM 245 N PHE B 293 -33.3017 88.271 24.878 ATOM 247 CB PHE B 293 -33.3017 88.271 24.878 ATOM 248 CG PHE B 293 -33.3017 88.271 24.878 ATOM 247 CB PHE B 293 -33.3017 88.271 24.878 ATOM 248 CG PHE B 293 -33.3017 88.271 24.878 ATOM 247 CB PHE B 293 -33.3017 88.271 24.878 ATOM 250 CD2 PHE B 293 -33.3628 89.96 17.420 ATOM 250 CD2 PHE B 293 -33.3673 89.518 24.748 ATOM 250 CD2 PHE B 293 -33.3673 89.518 24.748 ATOM 250 CD2 PHE B 293 -33.3673 89.518 24.748 ATOM 250 CD2 PHE B 293 -33.3673 89.518 24.748 ATOM 250 CD2 PHE B 293 -33.3673 89.508 24.808 ATOM 255 C PHE B 293 -33.3673 89.508 24.808 ATOM 255 C PHE B 293 -33.369 80.062 24.808 ATOM 255 C PHE B 293 -33.369 80.062 24.808 ATOM 255 C PHE B 293 -33.369 80.062 24.808 ATOM 255 C	1.00 43.19	б
ATOM 220 C LYS B 289 -37.555 82.871 23.668 ATOM 221 O LYS B 289 -38.057 82.366 24.657 ATOM 222 N LEU B 290 -36.365 83.482 23.661 ATOM 223 CA LEU B 290 -35.539 83.599 24.854 20 ATOM 224 CB LEU B 290 -34.053 83.499 24.491 ATOM 225 CG LEU B 290 -32.147 82.255 23.523 ATOM 226 CD1 LEU B 290 -32.147 82.255 23.523 ATOM 227 CD2 LEU B 290 -34.013 81.040 24.607 ATOM 228 C LEU B 290 -35.832 84.915 25.577 ATOM 229 O LEU B 290 -35.479 86.006 25.088 ATOM 230 N PRO B 291 -36.462 84.840 26.765 ATOM 231 CD PRO B 291 -36.462 84.840 26.765 ATOM 232 CA PRO B 291 -36.6819 83.613 27.494 ATOM 233 CB PRO B 291 -36.782 86.069 27.501 ATOM 233 CB PRO B 291 -37.376 85.574 28.811 ATOM 235 C PRO B 291 -37.376 85.574 28.811 ATOM 236 O PRO B 291 -35.625 88.197 27.404 ATOM 237 N MET B 292 -33.296 87.286 28.545 ATOM 239 CB MET B 292 -33.296 87.286 28.545 ATOM 240 CG MET B 292 -32.553 85.302 29.970 ATOM 241 SD MET B 292 -32.553 85.302 29.970 ATOM 242 CE MET B 292 -32.553 85.302 29.970 ATOM 243 C MET B 292 -32.553 85.302 29.970 ATOM 244 O MET B 292 -32.553 85.302 29.970 ATOM 244 O MET B 292 -32.228 89.098 27.420 ATOM 244 O MET B 292 -32.258 89.098 27.420 ATOM 244 CB PRE B 293 -33.3017 88.271 24.878 ATOM 246 CA PHE B 293 -33.322 87.604 26.143 ATOM 247 CB PRE B 293 -33.322 87.604 26.143 ATOM 248 CG PRE B 293 -33.322 87.604 26.143 ATOM 249 CD1 PRE B 293 -33.322 87.909 22.365 ATOM 250 CD2 PRE B 293 -33.322 87.909 22.365 ATOM 251 CEI PHE B 293 -33.367 87.909 22.365 ATOM 252 CE2 PRE B 293 -33.367 87.909 22.365 ATOM 255 O PRE B 293 -33.369 90.626 24.579 ATOM 255 O PRE B 293 -33.369 90.626 24.579 ATOM 255 O PRE B 293 -33.369 90.626 24.579 ATOM 255 O PRE B 293 -33.369 90.626 24.579 ATOM 255 O PRE B 293 -33.369 90.626 24.579 ATOM 255 O PRE B 293 -33.369 90.626 24.579 ATOM 255 O PRE B 293 -33.369 90.626 24.579 ATOM 255 O PRE B 293 -33.369 90.626 24.579 ATOM 255 O PRE B 293 -33.369 90.626 24.579 ATOM 255 O PRE B 293 -33.369 90.626 24.579 ATOM 255 O PRE B 293 -33.369 90.626 24.579	1.00 45.74	6
ATOM 221 O LYS B 289 -38.057 82.366 24.657 ATOM 222 N LEU B 290 -36.365 83.482 23.661 ATOM 223 CA LEU B 290 -35.539 83.599 24.854 ATOM 224 CB LEU B 290 -34.053 83.499 24.491 ATOM 225 CG LEU B 290 -33.640 82.240 23.767 ATOM 226 CD1 LEU B 290 -32.147 82.255 23.523 ATOM 227 CD2 LEU B 290 -34.013 81.040 24.607 ATOM 228 C LEU B 290 -35.832 84.915 25.577 ATOM 229 O LEU B 290 -35.479 86.006 25.088 ATOM 230 N PRO B 291 -36.462 84.840 26.765 ATOM 231 CD PRO B 291 -36.462 84.840 26.765 ATOM 233 CB PRO B 291 -36.819 83.613 27.494 ATOM 233 CB PRO B 291 -36.782 86.069 27.501 ATOM 233 CB PRO B 291 -37.549 84.110 28.695 ATOM 235 C PRO B 291 -37.549 84.110 28.695 ATOM 237 N MET B 292 -33.570 87.002 27.714 ATOM 238 CA MET B 292 -33.296 87.286 28.545 ATOM 240 CG MET B 292 -33.296 87.286 28.545 ATOM 240 CG MET B 292 -33.296 87.286 28.545 ATOM 241 SD MET B 292 -32.553 85.302 29.970 ATOM 243 C MET B 292 -32.149 86.376 28.975 ATOM 244 O MET B 292 -32.258 86.077 27.315 ATOM 243 C MET B 292 -32.2885 88.077 27.315 ATOM 244 O MET B 292 -32.2885 88.077 27.315 ATOM 245 N PHE B 293 -33.326 87.322 29.707 ATOM 246 CR PHE B 293 -33.326 87.322 23.707 ATOM 247 CB PHE B 293 -33.326 87.322 23.707 ATOM 248 CG PHE B 293 -33.326 87.992 23.3570 ATOM 249 CD1 PHE B 293 -33.873 87.999 22.3655 ATOM 250 CD2 PHE B 293 -33.873 87.999 22.3655 ATOM 250 CD2 PHE B 293 -33.873 89.518 24.740 ATOM 251 CE1 PHE B 293 -33.873 89.518 24.740 ATOM 255 C PHE B 293 -33.873 89.518 24.744 ATOM 256 N CYS B 294 -35.181 89.305 24.808 ATOM 257 CA CYS B 294 -35.181 89.305 24.808 ATOM 258 CB CYS B 294 -35.181 89.305 24.808 ATOM 258 CB CYS B 294 -35.181 89.305 24.808 ATOM 258 CB CYS B 294 -37.553 89.793 24.7566 ATOM 259 SG CYS B 294 -37.553 89.793 24.7566 ATOM 259 SG CYS B 294 -37.553 89.793 24.7566 ATOM 259 SG CYS B 294 -37.553 89.793 24.7566 ATOM 259 SG CYS B 294 -37.553 89.793 24.7566	1.00 52.49	7
ATOM 223 CA LEU B 290 -35.539 83.492 23.661 ATOM 223 CA LEU B 290 -35.539 83.599 24.854 ATOM 224 CB LEU B 290 -34.053 83.499 24.491 ATOM 225 CG LEU B 290 -33.640 82.240 23.767 ATOM 226 CD1 LEU B 290 -32.147 82.255 23.523 ATOM 227 CD2 LEU B 290 -34.013 81.040 24.607 ATOM 228 C LEU B 290 -35.832 84.915 25.577 D 25 ATOM 229 O LEU B 290 -35.832 84.915 25.577 D 25 ATOM 230 N PRO B 291 -36.462 84.840 26.765 N ATOM 231 CD PRO B 291 -36.462 84.840 26.765 ATOM 232 CA PRO B 291 -36.619 83.613 27.494 ATOM 233 CB PRO B 291 -36.82 86.069 27.501 ATOM 233 CB PRO B 291 -37.376 85.574 28.811 ATOM 235 C PRO B 291 -37.549 84.110 28.695 ATOM 236 O PRO B 291 -37.549 84.110 28.695 ATOM 237 N MET B 292 -33.570 87.002 27.714 ATOM 238 CA MET B 292 -34.474 86.476 28.258 ATOM 239 CB MET B 292 -32.149 86.376 28.975 ATOM 240 CG MET B 292 -32.149 86.376 28.975 ATOM 241 SD MET B 292 -32.149 86.376 28.975 ATOM 242 CE MET B 292 -32.149 86.376 28.975 ATOM 243 C MET B 292 -32.149 86.376 28.975 ATOM 244 O MET B 292 -32.149 86.376 28.975 ATOM 245 N PHE B 293 -33.296 87.222 23.701 ATOM 246 CA PHE B 293 -33.322 87.604 26.143 ATOM 247 CB PHE B 293 -33.322 87.604 26.143 ATOM 248 CG PHE B 293 -33.329 87.909 22.365 ATOM 249 CD1 PHE B 293 -33.329 87.909 22.365 ATOM 249 CD1 PHE B 293 -33.329 87.909 22.365 ATOM 250 CD2 PHE B 293 -33.555 88.486 20.100 ATOM 250 CD2 PHE B 293 -33.555 88.486 20.100 ATOM 250 CD2 PHE B 293 -33.555 88.486 20.100 ATOM 250 CD2 PHE B 293 -33.555 88.486 20.100 ATOM 251 CE1 PHE B 293 -33.352 88.9518 29.678 24.808 ATOM 255 O PHE B 293 -33.369 90.626 24.579 ATOM 256 N CYS B 294 -35.181 89.305 24.808 ATOM 256 N CYS B 294 -35.181 89.305 24.808 ATOM 256 N CYS B 294 -35.181 89.305 24.808 ATOM 256 N CYS B 294 -35.181 89.305 24.808 ATOM 257 CA CYS B 294 -35.181 89.305 24.669 ATOM 258 CB CYS B 294 -35.181 89.305 24.669 ATOM 258 CB CYS B 294 -35.181 89.305 24.669 ATOM 257 CA CYS B 294 -35.181 89.305 24.669	1.00 41.50	6
ATOM 223 CA LEU B 290 -35.539 83.599 24.854 ATOM 224 CB LEU B 290 -34.053 83.499 24.491 ATOM 225 CG LEU B 290 -33.640 82.240 23.767 ATOM 226 CD1 LEU B 290 -32.147 82.255 23.523 ATOM 227 CD2 LEU B 290 -34.013 81.040 24.607 ATOM 228 C LEU B 290 -35.832 84.915 25.577 ATOM 229 O LEU B 290 -35.479 86.006 25.088 ATOM 230 N PRO B 291 -36.462 84.840 26.765 ATOM 231 CD PRO B 291 -36.819 83.613 27.494 ATOM 233 CB PRO B 291 -36.819 83.613 27.494 ATOM 233 CB PRO B 291 -36.782 86.069 27.501 ATOM 233 CB PRO B 291 -37.549 84.110 28.695 ATOM 233 CB PRO B 291 -37.549 84.110 28.695 ATOM 235 C PRO B 291 -35.570 87.002 27.714 ATOM 236 O PRO B 291 -35.570 87.002 27.714 ATOM 237 N MET B 292 -35.625 88.197 27.403 ATOM 238 CA MET B 292 -32.149 86.376 28.258 ATOM 240 CG MET B 292 -32.149 86.376 28.975 ATOM 241 SD MET B 292 -32.149 86.376 28.975 ATOM 243 C MET B 292 -32.288 89.098 27.420 ATOM 243 C MET B 292 -32.288 89.098 27.420 ATOM 244 O MET B 292 -32.895 88.077 27.315 ATOM 245 N PHE B 293 -33.322 87.604 24.878 ATOM 246 CA PHE B 293 -33.296 87.329 23.707 ATOM 247 CB PHE B 293 -33.296 87.329 23.707 ATOM 248 CG PHE B 293 -33.322 87.604 24.878 ATOM 247 CB PHE B 293 -33.296 87.329 23.707 ATOM 248 CG PHE B 293 -33.296 87.979 22.365 ATOM 250 CD2 PHE B 293 -33.369 90.626 24.579 ATOM 250 CD2 PHE B 293 -33.872 87.972 21.350 ATOM 250 CD2 PHE B 293 -33.369 90.626 24.579 ATOM 250 CD2 PHE B 293 -33.369 90.626 24.579 ATOM 250 CD2 PHE B 293 -33.369 90.626 24.579 ATOM 250 CD PHE B 293 -33.369 90.626 24.579 ATOM 250 CD PHE B 293 -33.369 90.626 24.579 ATOM 250 CP PHE B 293 -33.369 90.626 24.579 ATOM 250 CP PHE B 293 -33.369 90.626 24.579 ATOM 250 CP PHE B 293 -33.369 90.626 24.579 ATOM 250 CP PHE B 293 -33.369 90.626 24.579 ATOM 250 CP PHE B 293 -33.369 90.626 24.579 ATOM 250 CP PHE B 293 -33.369 90.626 24.579 ATOM 250 CP PHE B 293 -33.369 90.626 24.579 ATOM 250 CP PHE B 293 -33.369 90.626 24.579 ATOM 250 CP PHE B 293 -33.369 90.626 24.579 ATOM 250 CP PHE B 293 -33.369 90.626 24.579 ATOM 250 CP PHE B 293 -	1,00 39.77	8
20 ATOM 224 CB LEU B 290	1.00 40.68	7
ATOM 225 CG LEU B 290 -33.640 82.240 23.767 ATOM 226 CD1 LEU B 290 -32.147 82.255 23.523 ATOM 227 CD2 LEU B 290 -34.013 81.040 24.607 ATOM 228 C LEU B 290 -35.832 84.915 25.577 50 25 ATOM 229 O LEU B 290 -35.832 84.915 25.577 50 25 ATOM 230 N PRO B 291 -36.462 84.840 26.765 ATOM 231 CD PRO B 291 -36.819 83.613 27.494 ATOM 232 CA PRO B 291 -36.819 83.613 27.494 ATOM 233 CB PRO B 291 -36.782 86.069 27.501 ATOM 233 CB PRO B 291 -37.376 85.574 28.811 30 ATOM 233 CB PRO B 291 -37.549 84.110 28.695 ATOM 235 C PRO B 291 -35.570 87.002 27.714 ATOM 235 C PRO B 291 -35.570 87.002 27.714 ATOM 236 O PRO B 291 -35.625 88.197 27.403 ATOM 237 N MET B 292 -34.474 86.476 28.258 ATOM 239 CB MET B 292 -34.474 86.476 28.258 ATOM 240 CG MET B 292 -32.149 86.376 28.975 ATOM 241 SD MET B 292 -32.149 86.376 28.975 ATOM 242 CE MET B 292 -31.070 84.609 30.755 ATOM 243 C MET B 292 -31.070 84.609 30.755 ATOM 244 O MET B 292 -31.070 84.609 30.755 ATOM 245 N PHE B 292 -32.895 88.077 27.315 40 ATOM 244 O MET B 292 -31.070 84.609 30.755 ATOM 245 N PHE B 293 -33.322 87.604 26.143 ATOM 246 CA PHE B 293 -33.322 87.604 26.143 ATOM 247 CB PHE B 293 -33.3296 87.329 23.707 ATOM 248 CG PHE B 293 -33.3296 87.329 23.707 ATOM 249 CD1 PHE B 293 -33.3296 87.329 23.707 ATOM 249 CD1 PHE B 293 -33.3296 87.329 23.707 ATOM 249 CD1 PHE B 293 -33.3296 87.329 23.707 ATOM 249 CD1 PHE B 293 -33.872 87.992 22.365 50 ATOM 250 CD2 PHE B 293 -33.872 87.992 22.365 50 ATOM 255 C PHE B 293 -33.873 89.518 24.744 ATOM 256 N CYS B 294 -35.181 89.305 24.808 ATOM 257 CA CYS B 294 -35.181 89.305 24.808 ATOM 256 N CYS B 294 -37.553 89.793 24.756 55 ATOM 259 SG CYS B 294 -37.555 89.793 24.756	1.00 39.33	6
ATOM 226 CD1 LEU B 290	1.00 36.14	6
ATOM 228 C LEU B 290 -34.013 81.040 24.607 ATOM 228 C LEU B 290 -35.832 84.915 25.577 ATOM 229 O LEU B 290 -35.832 84.915 25.578 ATOM 230 N PRO B 291 -36.462 84.840 26.765 ATOM 231 CD PRO B 291 -36.462 84.840 26.765 ATOM 232 CA PRO B 291 -36.782 86.069 27.501 ATOM 233 CB PRO B 291 -37.376 85.574 28.811 ATOM 233 CB PRO B 291 -37.376 85.574 28.811 ATOM 235 C PRO B 291 -37.549 84.110 28.695 ATOM 235 C PRO B 291 -35.625 88.197 27.403 ATOM 236 O PRO B 291 -35.625 88.197 27.403 ATOM 237 N MET B 292 -34.474 86.476 28.258 ATOM 238 CA MET B 292 -33.296 87.286 28.545 ATOM 240 CG MET B 292 -32.553 85.302 29.970 ATOM 241 SD MET B 292 -32.553 85.302 29.970 ATOM 242 CE MET B 292 -31.070 84.609 30.755 ATOM 244 C MET B 292 -32.228 89.098 27.420 ATOM 244 C MET B 292 -32.228 89.098 27.420 ATOM 245 N PHE B 293 -33.322 87.604 26.143 ATOM 246 CA PHE B 293 -33.296 87.329 23.707 ATOM 247 CB PHE B 293 -33.296 87.329 23.707 ATOM 248 CG PHE B 293 -33.296 87.329 23.707 ATOM 249 CD1 PHE B 293 -33.297 87.909 22.365 ATOM 249 CD1 PHE B 293 -33.2937 87.909 22.365 ATOM 250 CD2 PHE B 293 -33.555 88.466 20.100 ATOM 251 CE1 PHE B 293 -33.555 88.969 20.872 ATOM 252 CE2 PHE B 293 -33.555 88.969 20.872 ATOM 253 CZ PHE B 293 -33.555 88.966 20.100 ATOM 255 C PHE B 293 -33.555 88.966 20.100 ATOM 255 C PHE B 293 -33.555 88.966 20.879 ATOM 255 C PHE B 293 -33.555 88.966 20.100 ATOM 255 C PHE B 293 -33.555 88.966 20.879 ATOM 255 C PHE B 293 -33.555 88.966 20.879 ATOM 255 C PHE B 293 -33.555 88.966 20.879 ATOM 255 C PHE B 293 -33.555 88.966 20.879 ATOM 255 C PHE B 293 -33.555 88.966 20.879 ATOM 255 C PHE B 293 -33.555 88.966 20.879 ATOM 255 C PHE B 293 -33.555 88.966 20.879 ATOM 255 C PHE B 293 -33.555 89.979 22.4568 ATOM 255 C PHE B 293 -33.555 89.995 24.808 ATOM 255 C PHE B 293 -33.555 89.995 24.808 ATOM 255 C PHE B 293 -33.555 89.995 24.808 ATOM 255 C PHE B 293 -35.561 89.995 24.808	1.00 34.81	б
ATOM 228	1.00 29.07	6
10	1.00 33.45	6
N	1.00 40.08	6
ATOM 231 CD PRO B 291 -36.819 83.613 27.494 ATOM 232 CA PRO B 291 -36.782 86.069 27.501 ATOM 233 CB PRO B 291 -37.376 85.574 28.811 ATOM 234 CG PRO B 291 -37.549 84.110 28.695 ATOM 235 C PRO B 291 -35.570 87.002 27.714 ATOM 236 O PRO B 291 -35.625 88.197 27.403 ATOM 237 N MET B 292 -34.474 86.476 28.258 ATOM 238 CA MET B 292 -33.296 87.286 28.545 ATOM 240 CG MET B 292 -32.149 86.376 28.975 ATOM 241 SD MET B 292 -32.553 85.302 29.970 ATOM 242 CE MET B 292 -31.070 84.609 30.755 ATOM 243 C MET B 292 -31.070 84.609 30.755 ATOM 244 O MET B 292 -31.797 83.212 31.701 ATOM 244 O MET B 292 -32.895 88.077 27.315 ATOM 245 N PHE B 293 -33.322 87.604 26.143 ATOM 246 CA PHE B 293 -33.322 87.604 26.143 ATOM 247 CB PHE B 293 -33.329 87.909 22.365 ATOM 249 CD1 PHE B 293 -33.2937 87.909 22.365 ATOM 250 CD2 PHE B 293 -33.872 87.972 21.350 ATOM 251 CE1 PHE B 293 -33.872 87.972 21.350 ATOM 252 CE2 PHE B 293 -33.873 89.518 24.744 ATOM 253 CZ PHE B 293 -33.369 90.626 24.579 ATOM 255 C PHE B 293 -33.369 90.626 24.579 ATOM 256 N CYS B 294 -35.181 89.305 24.689 ATOM 257 CA CYS B 294 -37.553 89.793 24.756 55 ATOM 258 CB CYS B 294 -37.553 89.793 24.756 55 ATOM 258 CB CYS B 294 -37.553 89.793 24.756	1,00 42.00	8
ATOM 232 CA PRO B 291 -36.782 86.069 27.501 ATOM 233 CB PRO B 291 -37.376 85.574 28.811 30 ATOM 234 CG PRO B 291 -37.549 84.110 28.695 ATOM 235 C PRO B 291 -35.570 87.002 27.714 ATOM 236 O PRO B 291 -35.625 88.197 27.403 ATOM 237 N MET B 292 -34.474 86.476 28.258 ATOM 238 CA MET B 292 -33.296 87.286 28.545 ATOM 240 CG MET B 292 -32.149 86.376 28.975 ATOM 241 SD MET B 292 -32.149 86.376 28.975 ATOM 242 CE MET B 292 -31.070 84.609 30.755 ATOM 243 C MET B 292 -31.797 83.212 31.701 ATOM 243 C MET B 292 -32.895 88.077 27.315 40 ATOM 244 O MET B 292 -32.895 88.077 27.315 ATOM 245 N PHE B 293 -33.322 87.604 26.143 ATOM 246 CA PHE B 293 -33.322 87.604 26.143 ATOM 247 CB PHE B 293 -33.296 87.329 23.707 ATOM 248 CG PHE B 293 -33.296 87.329 23.707 ATOM 249 CD1 PHE B 293 -33.872 87.909 22.365 ATOM 250 CD2 PHE B 293 -33.872 87.909 22.365 ATOM 250 CD2 PHE B 293 -33.872 87.909 22.365 ATOM 251 CE1 PHE B 293 -33.872 87.909 22.365 ATOM 252 CE2 PHE B 293 -33.872 87.909 22.365 ATOM 255 CP PHE B 293 -33.872 87.909 22.365 ATOM 255 CP PHE B 293 -33.872 87.909 22.365 ATOM 255 CP PHE B 293 -33.872 87.909 22.365 ATOM 255 CP PHE B 293 -33.873 89.518 24.744 ATOM 255 CP PHE B 293 -33.873 89.518 24.744 ATOM 255 CP PHE B 293 -33.869 90.626 24.579 ATOM 256 N CYS B 294 -35.181 89.305 24.808 ATOM 257 CA CYS B 294 -35.181 89.305 24.808 ATOM 258 CB CYS B 294 -37.553 89.793 24.756 55 ATOM 259 SG CYS B 294 -37.553 89.793 24.756	1.00 40.27	7
ATOM 233 CB PRO B 291 -37.376 85.574 28.811 30 ATOM 234 CG PRO B 291 -37.549 84.110 28.695 ATOM 235 C PRO B 291 -35.570 87.002 27.714 ATOM 236 O PRO B 291 -35.625 88.197 27.403 ATOM 237 N MET B 292 -34.474 86.476 28.258 ATOM 238 CA MET B 292 -32.149 86.376 28.975 ATOM 239 CB MET B 292 -32.149 86.376 28.975 ATOM 241 SD MET B 292 -32.553 85.302 29.970 ATOM 242 CE MET B 292 -31.070 84.609 30.755 ATOM 243 C MET B 292 -31.797 83.212 31.701 ATOM 244 O MET B 292 -32.895 88.077 27.315 40 ATOM 244 O MET B 292 -32.228 89.098 27.420 ATOM 245 N PHE B 293 -33.322 87.604 26.143 ATOM 246 CA PHE B 293 -33.322 87.604 26.143 ATOM 247 CB PHE B 293 -33.296 87.329 23.707 ATOM 248 CG PHE B 293 -33.296 87.329 23.707 ATOM 248 CG PHE B 293 -33.872 87.909 22.365 45 ATOM 249 CD1 PHE B 293 -31.653 88.354 22.120 ATOM 250 CD2 PHE B 293 -33.872 87.972 21.350 ATOM 251 CE1 PHE B 293 -33.872 87.972 21.350 ATOM 252 CE2 PHE B 293 -33.872 87.972 21.350 ATOM 255 O PHE B 293 -33.873 89.518 24.744 ATOM 255 O PHE B 293 -33.873 89.518 24.744 ATOM 255 O PHE B 293 -33.873 89.518 24.744 ATOM 256 N CYS B 294 -35.181 89.305 24.808 ATOM 257 CA CYS B 294 -35.181 89.305 24.808 ATOM 258 CB CYS B 294 -37.553 89.793 24.756 55 ATOM 259 SG CYS B 294 -37.553 89.793 24.756	1.00 39.65	6
30 ATOM 234 CG PRO B 291 -37.549 84.110 28.695 ATOM 235 C PRO B 291 -35.570 87.002 27.714 ATOM 236 O PRO B 291 -35.625 88.197 27.403 ATOM 237 N MET B 292 -34.474 86.476 28.258 ATOM 238 CA MET B 292 -32.149 86.376 28.975 ATOM 240 CG MET B 292 -32.553 85.302 29.970 ATOM 241 SD MET B 292 -31.070 84.609 30.755 ATOM 242 CE MET B 292 -31.070 84.609 30.755 ATOM 243 C MET B 292 -31.797 83.212 31.701 ATOM 243 C MET B 292 -32.895 88.077 27.315 40 ATOM 244 O MET B 292 -32.228 89.098 27.420 ATOM 245 N PHE B 293 -33.322 87.604 26.143 ATOM 246 CA PHE B 293 -33.017 88.271 24.878 ATOM 247 CB PHE B 293 -33.296 87.329 23.707 ATOM 248 CG PHE B 293 -33.296 87.909 22.365 45 ATOM 249 CD1 PHE B 293 -33.872 87.909 22.365 ATOM 250 CD2 PHE B 293 -33.872 87.972 21.350 ATOM 251 CE1 PHE B 293 -33.872 87.972 21.350 ATOM 255 CP2 PHE B 293 -33.872 87.972 21.350 ATOM 255 CP2 PHE B 293 -33.872 87.972 21.350 ATOM 255 CP2 PHE B 293 -33.872 87.972 21.350 ATOM 255 CP2 PHE B 293 -33.873 89.518 24.744 ATOM 255 CP PHE B 293 -33.873 89.518 24.744 ATOM 255 CP PHE B 293 -33.873 89.518 24.744 ATOM 255 CP PHE B 293 -33.369 90.626 24.579 ATOM 257 CA CYS B 294 -35.181 89.305 24.868 ATOM 258 CB CYS B 294 -37.553 89.793 24.756 55 ATOM 259 SG CYS B 294 -37.553 89.793 24.756	1.00 38.28	6
ATOM 235 C PRO B 291 -35.570 87.002 27.714 ATOM 236 O PRO B 291 -35.625 88.197 27.403 ATOM 237 N MET B 292 -34.474 86.476 28.258 ATOM 238 CA MET B 292 -32.149 86.376 28.975 ATOM 240 CG MET B 292 -32.149 86.376 28.975 ATOM 241 SD MET B 292 -31.070 84.609 30.755 ATOM 242 CE MET B 292 -31.070 84.609 30.755 ATOM 243 C MET B 292 -31.797 83.212 31.701 ATOM 244 O MET B 292 -32.895 88.077 27.315 40 ATOM 245 N PHE B 292 -32.228 89.098 27.420 ATOM 245 N PHE B 293 -33.322 87.604 26.143 ATOM 246 CA PHE B 293 -33.017 88.271 24.878 ATOM 247 CB PHE B 293 -33.017 88.271 24.878 ATOM 248 CG PHE B 293 -33.017 88.271 24.878 ATOM 249 CD1 PHE B 293 -33.296 87.329 23.707 ATOM 249 CD1 PHE B 293 -33.872 87.909 22.365 45 ATOM 250 CD2 PHE B 293 -31.306 88.869 20.872 ATOM 251 CE1 PHE B 293 -33.525 88.486 20.100 ATOM 253 CZ PHE B 293 -33.525 88.486 20.100 ATOM 254 C PHE B 293 -33.873 89.518 24.744 ATOM 255 O PHE B 293 -33.369 90.626 24.579 ATOM 255 C PHE B 293 -33.369 90.626 24.579 ATOM 255 C PHE B 293 -33.369 90.626 24.579 ATOM 255 C R PHE B 293 -33.369 90.626 24.579 ATOM 257 CA CYS B 294 -35.181 89.305 24.808 ATOM 258 CB CYS B 294 -37.553 89.793 24.756 55 ATOM 259 SG CYS B 294 -37.553 89.793 24.756		6
ATOM 236 O PRO B 291 -35.570 87.002 27.714 ATOM 236 O PRO B 291 -35.625 88.197 27.403 ATOM 237 N MET B 292 -34.474 86.476 28.258 ATOM 238 CA MET B 292 -33.296 87.286 28.545 ATOM 240 CG MET B 292 -32.149 86.376 28.975 ATOM 241 SD MET B 292 -32.553 85.302 29.970 ATOM 242 CE MET B 292 -31.070 84.609 30.755 ATOM 243 C MET B 292 -31.797 83.212 31.701 ATOM 244 O MET B 292 -32.895 88.077 27.315 40 ATOM 245 N PHE B 292 -32.288 89.098 27.420 ATOM 246 CA PHE B 293 -33.322 87.604 26.143 ATOM 246 CA PHE B 293 -33.322 87.604 26.143 ATOM 247 CB PHE B 293 -33.296 87.329 23.707 ATOM 248 CG PHE B 293 -33.296 87.329 23.707 ATOM 249 CD1 PHE B 293 -33.296 87.909 22.365 45 ATOM 249 CD1 PHE B 293 -31.653 88.354 22.120 ATOM 250 CD2 PHE B 293 -31.306 88.869 20.872 ATOM 251 CE1 PHE B 293 -33.872 87.972 21.350 ATOM 252 CE2 PHE B 293 -33.525 88.486 20.100 ATOM 253 CZ PHE B 293 -33.525 88.486 20.100 ATOM 255 O PHE B 293 -33.525 88.486 20.100 ATOM 255 C PHE B 293 -33.525 88.486 20.100 ATOM 255 C PHE B 293 -33.525 88.486 20.100 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.525 88.486 20.400 ATOM 255 C PHE B 293 -33.555 89.793 24.756 55 ATOM 258 CB CYS B 294 -35.181 89.305 24.808		· 6
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ATOM 255 O PHE B 293 -33.369 90.626 24.579 ATOM 256 N CYS B 294 -35.181 89.305 24.808 ATOM 257 CA CYS B 294 -36.146 90.382 24.689 ATOM 258 CB CYS B 294 -37.553 89.793 24.756 55 ATOM 259 SG CYS B 294 -37.899 88.607 23.449		6
ATOM 256 N CYS B 294 -35.181 89.305 24.808 ATOM 257 CA CYS B 294 -36.146 90.382 24.689 ATOM 258 CB CYS B 294 -37.553 89.793 24.756 55 ATOM 259 SG CYS B 294 -37.899 88.607 23.449		6
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55 ATOM 259 SG CYS B 294 -37.899 88.607 23.449		6
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PAILING ATILL L. LESS PA AND METS WELL METS MET DELLE AND ESS.		16
ATOM 261 O CYS B 294 -36.585 92.536 25.656		6
ATOM 261 0 CIS B 294 ~36.585 92.536 25.656 ATOM 262 N GLU B 295 ~35.137 91.200 26.753		8 7
ALON 202 N GDU B 295 -55.157 91.200 26.755	1.00 43.72	,

	5	ATOM	263	CA	GLU	В	295	-34.839	92.159	27.816	1.00	52.53	б
		ATOM	264	CB	GLU	В	295	-34.553	91.412	29.131	1.00	57.40	6
		ATOM	265	CG	GLU	В	295	-35.811	90.978	29.874	1.00	69.63	6
		ATOM	266	CD	GLU	В	295	-36.610	92.144	30.375	1.00	78.49	6
		ATOM	267	OE1	GLU	В	295	-36.153	92.869	31.297	1.00	82,82	8
	10	ATOM	268	OE2	GLU			-37.730	92.385	29.860	1.00	85.30	8
		ATOM	269	С	GLU			-33.629	93.009	27.415	1.00	48.54	6
		ATOM	270	0	GLU			-32.981	93.627	28.260		49.82	8
		MOTA	271	N	LEU			-33.374	93.030	26.109		43.79	7
		ATOM	272	CA	LEU			-32.268	93.761	25.540	•	45.42	6
	15											41.04	6
	15	ATOM	273	CB	LEU			-31.319	92.769	24.838			
		MOTA	274	CG	LEU			-30.735	91.631	25.662		42.74	6
		ATOM	275	CD1	LEU			-30.354	90.478	24.764		40,99	6
		ATOM	276	CD2	LEU			-29.559	92.119	26.468		39.44	6
		ATOM	277	С	LEU			-32.760	94.779	24.522		45.56	6
	20	ATOM	278	0	LEU			-33.845	94.600	23.924		43.07	8
		ATOM	279	N	PRO	В	297	-32.004	95.875	24.338	1.00	46.99	7
		ATOM	280	CD	PRO	В	297	-30.740	96.123	25.046	1.00	47.12	6
		ATOM	281	CA	PRO	В	297	-32.388	96.912	23.363	1.00	49.61	6
		ATOM	282	CB	PRO	В	297	-31.294	97.973	23.494	1.00	49.91	6
ı D	25	ATOM	283	CG	PRO	В	297	-30.302	97.477	24.545	1.00	51.28	6
IU		ATOM	284	С	PRO	В	297	-32.263	96.273	21.913	1.00	49.59	6
Ö		ATOM	285	0	PRO	В	297	-31.441	95.340	21.685	1.00	51.66	8
[4		ATOM	286	N	CYS			-33.035	96.667	20.854	•	51.02	7
· J		ATOM	287	CA	CYS			-32.761	96.150	19.456		52.86	6
_	30	ATOM	288	СВ	CYS		*	-33.140	97.165	18.356		54.57	6
100	50	ATOM	289	SG	CYS		298	-34.884	97.085	17.836		67.87	16
#1		ATOM	290	C	CYS			-31.385	96.330	19.127		48.51	6
		ATOM	291	0	CYS			-30.579	95.506	18.744		49.58	8
IJ					GLU			-30.379	97.447	19.230		44.17	7
	25	ATOM	292	N									6
	35	ATOM	293	CA	GLU			-29.989	97.645	18.718		47,57	
ιĎ		ATOM	294	CB	GLU			-29.402	98.973	19.208		49.92	6
ıΩ		ATOM	295	CG	GLU				100.187	18.433		59.30	6
		MOTA	296	CD	GLU			-31.090		19.164	1.00		6
		ATOM	297	OE 1	GLU				101.904	18.629	1.00		8
	40	ATOM	298	OE2	GLU				100.458	20.319		67.10	8
		MOTA	299	С	GLU			-28.993	96.533	18.987		46.57	6
		ATOM	300	0	GLU			-28.200	96.179	18.111	•	44.65	8
		ATOM	301	N	ASP	В	300	-29.045	95.989	20.203	1.00	45.17	7
		ATOM	302	CA	ASP	В	300	-28.152	94.908	20.584	1,00	43.32	6
	45	ATOM	303	CB	ASP	В	300	-27.985	94.849	22.105	1.00	37.38	6
		ATOM	304	CG	ASP	В	300	-27.239	96.016	22.650	1.00	36.23	6
		ATOM	305	OD1	ASP	В	300	-26.208	96.421	22.052	1.00	35.87	8
		ATOM	306	OD2	ASP	В	300	-27.661	96.543	23.716	1.00	40.14	8
		ATOM	307	С	ASP			-28.721	93.591	20.071		42.81	6
	50	ATOM		·O	ASP			-28.001	92.775	19.489		46.02	8
		ATOM	309	N	GLN			-30.019	93.399	20.306		38.60	7
		ATOM	310	CA	GLN			-30.712	92.197	19.858		40.00	6
		ATOM	311	СВ	GLN			-32.234	92.418	19.836		38.59	6
		ATOM	312	CG	GLN			-32.908	92.380	21.187		40.26	6
	55	ATOM	313	CD	GLN			-34.401	92.583	21.107		44.15	6
	5,5	ATOM	314					-34.859	93.637	20.589		45.73	8
		ATOM	315		GLN			-34.639	91.602	21.544		46.13	7
		ATOM	316	C	GLN			-30.237	91.802	18.455		41.64	6
		41 ON	210		GTIA	0	301	-30.23/	91.030	10.433	1.00	41.04	3

	5	ATOM	317	0	GLN	В	301	-30.162	90.662	18.100	1.00	45.02	8
		ATOM	318	N			302	-29.916	92.864	17.674	1.00	41.01	7
		ATOM	319	CA			302	-29.424	92.692	16.311		40.23	6
		ATOM	320	CB			302	-29.584	93.978	15.498		39.52	6
		ATOM	321	CG2			302	-29.034	93.792	14.100		31.98	6
	10	ATOM	322	CG1			302	-31.059	94.385	15,416		40.77	6
	10	MOTA	323	CD1			302	-31.939	93.317	14.775		45.43	6
													6
		ATOM	324	C			302	-27.966	92.260	16.342		38.58	
		ATOM	325	0			302	-27.613	91.197	15.830		40.81	8
		ATOM	326	N			303	-27.128	93.111	16.933		37.50	7
	15 [.]	ATOM	327	CA			303	-25.692	92.846	17.062		39.33	6
		MOTA	328	CB			303	-25.066	93.648	18.203		39.06	6
		ATOM	329	CG2			303	-23.566	93,405	18.257	1.00	36.19	6
		ATOM	330	CG1	ILE	В	303	-25.309	95.143	18.020	1.00	40.15	6
		ATOM	331	CD1	ILE	В	303	-24.816	95.966	19.173	1.00	36.93	6
	20	ATOM	332	С.	ILE	В	303	-25.470	91.365	17.323	1.00	36.49	6
		ATOM	333	0	ILE	В	303	-24.619	90.725	16.712	1.00	36.58	8
		ATOM	334	N	LEU	В	304	-26.244	90.843	18.266	1.00	32.91	7
		ATOM	335	CA	LEU			-26.194	89.433	18.633		27.55	6
		ATOM	336	СВ	LEU		304	-27.172	89.182	19.793		22.35	. 6
Ö	25	ATOM	337	CG	LEU			-26.623	89.449	21.187		26.88	6
IJ		ATOM	338	CD1			304	-25.540	90.495			24.82	6
Ø		ATOM	339	CD2			304	-27.747	89.840	22.121		23.69	6
-			340	CDZ	LEU		304	-26.505	88.547	17.425		28.05	6
1		ATOM											
[-i	20	ATOM	341	0	LEU		304	-25.668	87.751	16.983		24.68	8
i.	30	ATOM	342	N	LEU		305	-27.716	88.700	16.897		26.34	7
1!		ATOM	343	CA	LEU			-28.145	87.939	15.741		30.91	6
		ATOM	344	CB	LEU		305	-29.460	88.514	15.199		32.50	6
لدا		ATOM	345	CG	LEU		305	-30.699	88.305	16.050		33.36	6
Ш		ATOM	346	CD1	LEU		305	-31.938	88.839	15.342		33.87	6
	35	ATOM	347	CD2			305	-30,863	86.812	16.298		31.72	6
Ü		ATOM	348	С	LEU	В	305	-27.072	87.922	14.666	1.00	29.76	6
ū		ATOM	349	0	LEU	В	305	-26.687	86.860	14.202	1.00	29.33	8
100		ATOM	350	N	LYS	В	306	-26.597	89.107	14.291	1.00	29.72	7
		ATOM	351	CA	LYS	В	306	-25.576	89.254	13.264	1,00	34.28	б
	40	ATOM	352	CB	LYS	В	306	-25.224	90.732	13.077	1.00	35.98	6
		ATOM	353	CG	LYS	В	306	-26.350	91.581	12.494	1.00	43.35	6
		ATOM	354	CD	LYS	В	306	-25.852	92.987	12.182	1.00	51.50	6
		ATOM	355	CE	LYS			-24.706	92.932	11.190		53.26	6
		ATOM	356	NZ	LYS			-23.883	94.161	11.251		59.61	7
	45	ATOM	357	C	LYS			-24.308	88.484	13.556		35.25	6
		ATOM	358	Ö	LYS			-23.681	87.917	12.653		33.95	8
		ATOM	359	N	GLY			-23.918	88.478	14.829		35.79	7
		ATOM	360	CA	GLY			-22.702	87.793	15.227		34.59	6
	50	ATOM	361	C	GLY			-22.811	86.291	15.383		33.80	6
	50	ATOM	362	0	GLY			-21.944	85.564	14.895		31.59	8
		ATOM	363	N	CYS			-23.861	85.843	16.071		31.15	7
		ATOM	364	CA	CYS			-24.069	84.434	16.320		29.04	6
		ATOM	365	CB	CYS			-24.761	84.240	17.663		27.59	6
		ATOM	366	SG	CYS			-26.496	84.629	17.608		30.50	16
	55	ATOM	367	С	CYS			-24.911	83.712	15.266		30.59	6
		ATOM	368	0	CYS			-25.088	82.499	15.365		33.77	8
		ATOM	369	N	CYS			-25.432	84.429	14.266		28.46	7
		ATOM	370	CA	CYS	В	309	-26.270	83.787	13.265	1.00	30.10	6

	5	ATOM	371	СВ	CYS	В	309	-26.706	84.761	12.194	1.00	33.43	6
		ATOM	372	SG	CYS	В	309	-27.875	84.011	11.089	1.00	35.20	16
		ATOM	373	C	CYS	В	309	-25.617	82.608	12.603	1.00	27.72	6
		ATOM	374	0	CYS	В	309	-26.170	81.518	12.610	1.00	27.69	8
		ATOM	375	N	MET	В	310	-24.447	82.829	12.011	1.00	26.15	7
	10	ATOM	376	CA	MET	В	310	-23.737	81.748	11,352	1.00	26.06	6
		ATOM	377	CB	MET	В	310	-22.439	82.263	10,712	1.00	25.32	6
		ATOM	378	CG	MET	В	310	-21.584	81.157	10.080	1.00	24.08	6
		ATOM	379	SD	MET	В	310	-22.555	80.324	8.758	1.00	27.71	16
		ATOM	380	CE	MET	В	310	-21.549	78.826	8.427	1.00	28.50	6
	15	ATOM	381	С	MET		310	-23.416	80.673	12.374	1.00	25.94	6
		ATOM	382	0		В	310	-23.659	79.489	12.151	1.00	28.09	8
		ATOM	383	N	GLU		311	-22.865	81.117	13.500	1.00	25.39	7
		ATOM	384	CA	GLU		311	-22.466	80.231	14.576		27.03	6
		ATOM	385	CB	GLU			-22.036	81.048	15.797		24.39	6
	20	ATOM	386	CG	GLU			-21.019	82.141	15.509		26.00	6
	20	ATOM	387	CD	GLU			-20.524	82.835	16.740		23.95	6
		ATOM	388	OE1	GLU			-21.321	83.108	17.668		19.72	8
		ATOM	389	OE2	GLU			-19.313	83.163	16.815		26.51	8
		ATOM	390	C	GLU			-23.582	79.264	14.964		27.51	6
Ü	25	ATOM	391	0	GLU			-23.347	78.068	15.093		29.67	8
ĪŪ	23	ATOM	392	N			312	-24.794	79.792	15.145		26.82	7
Ø		ATOM	393	CA			312	-25.933	78.967	15.527		25.71	6
ink.				CB	ILE			-27.125	79.814	16.021		23.35	6
·~J		ATOM	394									20.27	6
-	20	ATOM	395	CG2	ILE			-28.327	78.933	16.276			
J	30	ATOM	396	CG1	ILE			-26.771	80.541	17.325		20.88	6
£i.		ATOM	397	CD1	ILE			-27.952	81.163	18.028		18.15	6
		ATOM	398	C	ILE		312	-26.370	78.072	14.392		27.91	6
ليزا		ATOM	399	0	ILE		312	-26.769	76.926	14.605		28.96	8
لزا	25	ATOM	400	N			313	-26.303	78.603	13.174		27.66	7
	35	ATOM	401	CA	MET		313	-26.696	77.832	11.999		30.18	6
·D		ATOM	402	CB	MET		313	-26.696	78.691	10.734		36.89	6
Ü		ATOM	403	CG	MET		313	-27.882	79.634	10.607		37.95	6
		ATOM	404	SD	MET		313	-28.238	80.275	8.907		42.38	16
	4.0	MOTA	405	CE	MET		313	-26.787	81.316	8.639		40.68	6
	40	MOTA	406	С			313	-25.791	76.632	11.808		27.43	6
		ATOM	407	0	MET			-26.258	75.501	11.893		28.61	8
		ATOM	408	N	SER			-24.508	76.882	11.549		24.88	7
		ATOM	409	CA	SER			-23.533	75.824	11.346		27.98	6
		ATOM	410	CB	SER			-22.150	76.441	11.165		29.64	6
	45	ATOM	411	OG	SER			-21.844	77.316	12.227		43.44	8
		ATOM	412	С	SER			-23.514	74.774	12.465		22.30	6
		MOTA	413	0	SER	В	314	-23.279	73.592	12.199		24.18	8
		ATOM	414	N	LEU	В	315	-23.760	75.187	13.714	1.00	23.99	7
		MOTA	415	CA	LEU	В	315	-23.792	74.219	14.811	1.00	25.07	6
	50	ATOM	416	CB	LEU	В	315	-24.095	74.869	16.169	1.00	19.11	6
		ATOM	417	CG	LEU	В	315	-24.507	73.860	17.234	1.00	20.39	6
		ATOM	418	CD1	LEU	В	315	-23.390	72.878	17.493	1.00	18.92	6
		ATOM	419		LEU			-24.895	74.560	18.514	1.00	12.93	6
		ATOM	420	С	LEU			-24.892	73.219	14.517	1.00	24.53	6
	55	ATOM	421	0	LEU			-24.672	72.014	14.550		26.32	8
		ATOM	422	N	ARG			-26.079	73.762	14.254		28.18	7
		ATOM	423	CA	ARG			-27.278	72.996	13.971		27.54	6
		ATOM	424	СВ	ARG			-28.432	73.941	13.651		27.39	6
			-	-		-		•				-	

	5	ATOM	425	CG	ARG B	316	-28.823	74.857	14.809	1.00	22.00	6
		ATOM	426	CD	ARG B	316	-30.074	75,657	14.451	1.00	18.78	6
		ATOM	427	NE	ARG B	316	-30.905	75.944	15.598	1.00	26.57	7
		ATOM	428	CZ	ARG B		-32,166	76.337	15.489	1.00	30.81	6
		ATOM	429	NH1			-32.686	76.535	14.280	1.00	33.71	7
	10	ATOM	430	NH2	ARG B		-32.900	76.542	16.581		33.13	7
	•	ATOM	431	С	ARG B		-27.128	72.028	12.830		28.09	6
		ATOM	432	0	ARG B		-27.852	71.053	12.760		32.41	8
		ATOM	433	N	ALA B		-26.187	72.309	11.941		28.36	7
		ATOM	434	CA	ALA B		-25.938	71.466	10.794		26.64	6
	15	ATOM	435	СВ	ALA B		-25.337	72.300	9.675		22.93	6
		ATOM	436	C	ALA B		-24.998	70.327	11.150		28.35	6
		ATOM	437	0	ALA B		-25.223	69.187	10.773		32.10	8
		ATOM	438	N	ALA B		-23.941	70.659	11.882		29.12	7
		ATOM	439	CA	ALA B		-22.957	69.682	12.299		27.50	6
	20	ATOM	440	CB	ALA B		-21.915	70.355	13.160		28.39	6
	20	ATOM	441	C	ALA B		-23.645	68.591	13.180		28.10	6
		ATOM	442	0	ALA B		-23.415	67.415	12.854		28.18	8
			442		VAL B			69.012			29.16	7
		ATOM		N			-24.502		14.016			6
Ü	25	ATOM	444	CA	VAL B		-25.259	68.107	14.889		35.24	
įΰ	25	ATOM	445	CB	VAL B		-26.228	68.897	15.765		27.34	6
Ø		ATOM	446		VAL B		-25.576	70.149	16.246		29.96	6
i ab		ATOM	447		VAL B		-27.505	69.212	15.022		31.70	6
i.		ATOM	448	С	VAL B		-26.066	67.146	14.043		40.01	6
-	20	MOTA	449	0	VAL B		-26.701	66.250	14.578		42.70	8
1	30	MOTA	450	N	ARG B		-26.025	67.353	12.723		38.64	7
E!		ATOM	451	CA	ARG B		-26.770	66.541	11.762		38.61	6
		ATOM	452	CB	ARG B		-27.838	67.409	11.123		37.26	6
لرا		ATOM	453	CG	ARG B		-29.152	67.280	11.822		43.12	6
IJ		ATOM	454	CD	ARG B		-30.145	68.340	11.387		50.79	6
	35	ATOM	455	NE	ARG B		-31.500	67.911	11.705		54.71	7
		ATOM	456	CZ	ARG B		-32.555	68.723	11.597		57.89	6
Ē		MOTA	457	NH1	ARG B		-32.398	69,957	11.130		49.08	7
		ATOM	458	NH2	ARG B		-33.773	68.302	11.844		59.59	7
		MOTA	459	С	ARG B		-25.937	65.910	10.670		42.14	6
	40	ATOM	460	0	ARG B		-26.381	65.802	9.532		46.30	8
		ATOM	461	N	TYR B		-24.734	65.488	11.022		42.04	7
		ATOM	462	CA	TYR B		-23.858	64.848	10.063		42.70	6
		ATOM	463	CB	TYR B		-22.433	65.332	10.297		38.01	6
		ATOM	464	CG	TYR B		-21.393	64.396	9.756		37.94	6
	45	ATOM	465		TYR B		-21.265	64.176	8.397		33.85	6
		MOTA	466		TYR B		-20.333	63.258	7.912		34.49	6
		ATOM	467		TYR B		-20.583	63.683	10.613	1.00	28.03	6
		ATOM	468	CE2	TYR B	321	-19.658	62.769	10.134	1.00	32.69	6
		ATOM	469	CZ	TYR B	321	-19.532	62.551	8.781	1.00	35.18	6
	50	ATOM	470	OH	TYR B	321	-18.616	61.661	8.292	1.00	39.48	8
		ATOM	471	С	TYR B	321	-23.897	63.347	10.234	1.00	45.51	6
		ATOM	472	0	TYR B	321	-23.560	62.857	11.292	1.00	48.02	8
		ATOM	473	N	ASP B		-24.317	62.642	9.188	1.00	44.56	7
		ATOM	474	CA	ASP B		-24.391	61.170	9.182		45.86	6
	55	ATOM	475	СВ	ASP B		-25.570	60.749	8.294		46.64	6
		ATOM	476	CG	ASP B		-25.449	59.359	7.775		40.00	6
		ATOM	477		ASP B		-24.388	58.737	7.986		40.00	8
		ATOM	478		ASP B		-26.414	58.862	7.117		40.00	8
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	5	MOTA	479	C	ASP	В	322	-23.044	60.659	8.682	1.00	45.82	6
		ATOM	480	0	ASP	В	322	-22.738	60.783	7.495	1.00	45.38	8
		MOTA	481	N	PRO	В	323	-22.242	60.005	9.549	1.00	46.53	7
		ATOM	482	CD	PRO	В	323	-22.594	59.676	10.934	1.00	47.16	6
		MOTA	483	CA	PRO	В	323	-20.910	59.487	9.162	1.00	46.63	6
	10	MOTA	484	CB	PRO	В	323	-20.367	58.847	10.433	1.00	43.95	6
		ATOM	485	CG	PRO	В	323	-21.398	58.958	11.454	1.00	43.93	6
		ATOM	486	С	PRO	В	323	-20.933	58.489	8.017	1.00	48.34	6
		ATOM	487	0	PRO	В	323	-20.040	58.457	7.171	1.00	50.84	8
		MOTA	488	N	GLU	В	324	-21.951	57.631	8.022	1.00	52.39	7
	15	ATOM	489	CA			324	-22.126	56.615	7.008	1.00	55.85	б
		ATOM	490	СВ			324	-23.491	55.960	7.216		55.54	6
		ATOM	491	CG			324	-23.678	55.332	8,581		40.00	6
		ATOM	492	CD			324	-22.642	54.294	8.888		40,00	6
		MOTA	493	OE1				-21.796	53.979	8.000		40.00	8
	20	MOTA	494	OE2			324	-22.645	53.751	10.029	•	40.00	8
		ATOM	495	С			324	-22.087	57.292	5.655		54.94	6
		ATOM	496	0	GLU			-21.144	57.149	4,896		59.81	8
		ATOM	497	N			325	-23.165	58.022	5.389		52.95	7
		ATOM	498	CA			325	-23.358	58.762	4.163		50.10	6
·D	25	ATOM	499	CB			325	-24.768	59.357	4.163		48,23	6
IJ		ATOM	500	OG			325	-25.051	59.976	5.403		48.71	8
Ü		ATOM	501	c			325	-22.324	59.861	3.964		50.61	6
ᆂ		ATOM	502	0			325	-21.956	60.176	2.848		52.19	8
		ATOM	503	N			326	-21.851	60.422	5.070		45.64	7
	30	ATOM	504	CA			326	-20.854	61.476	5.050		43.35	6
1.6		ATOM	505	CB	GLU		326	-19.602	61.022	4.277		42.74	6
ši Jero.		ATOM	506	CG	GLU		326	-18.880	59.814	4.876		50.32	6
j)		ATOM	507	CD	GLU		326	-17.576	59.524	4.207		56.34	6
IJ		ATOM	508	OE1			326	-16.898	58.545	4.608	-	59.31	8
IJ	35	ATOM	509	OE2			326	-17.177	60.255	3.266		55.74	8
(₁₉)		ATOM	510	C	GLU		326	-21.401	62.731	4.418		40.23	6
ıΩ		ATOM	511	ō	GLU		326	-20.793	63.285	3.514		40.44	8
· [ATOM	512	N	THR		327	-22.528	63.208	4.934	•	35.90	7
		ATOM	513	CA	THR		327	-23.163	64.418	4.401		37.29	6
	40	ATOM	514	СВ	THR			-24.146	64.052	3.285		37.63	6
		ATOM	515		THR			-25.172	63.199	3.803		38.12	8
		ATOM	516		THR			-23.445	63.342	2.130		39.90	6
		ATOM	517	С	THR			-23.961	65.125	5.473		39.49	6
		MOTA	518	0	THR			-24.645	64.473	6.264		40.50	8
	45	ATOM	519	N	LEU			-23.909	66.454	5.473		36.64	7
		ATOM	520	CA	LEU			-24.675	67.239	6.447		37.73	6
		ATOM	521	СВ	LEU			-24.061	68.637	6.620		37.78	6
		ATOM	522	CG	LEŲ			-22.586	68.750	6.931		36.26	6
		ATOM	523		LEU		328	-22.260	70.145	7.411		36.56	б
	50	ATOM	524		LEU			-22.231	67.751	8.000		39.85	6
	-	ATOM	525	Ç	LEU			-26.090	67.344	5.897		37.27	6
		ATOM	526	ō	LEU			-26.358	66.855	4.805		34.96	8
		ATOM	527	N	THR			-26.989	67.975	6.647		39.73	7
		ATOM	528	CA	THR			-28.369	68.132	6.215		40.81	6
	55	ATOM	529	СВ	THR			-29.279	67.135	6,918		42.67	6
		ATOM	530	OG1				-28.799	65.809	6.686		42.52	8
		ATOM	531	CG2				-30.702	67.255	6.375		43.52	6
		ATOM	532	C	THR			-28.853	69.529	6.498		44.31	6
				_		_			J				_

	5	MOTA	533	0	THR	В	329	-29.432	69.801	7,535	1.00	43.72	8
		ATOM	534	N	LEU	В	330	-28.589	70.413	5.546	1.00	44.62	7
		ATOM	535	CA	LEU	В	330	-28.983	71.812	5.658	1.00	45.09	6
		ATOM	536	CB	LEU	В	330	-28.354	72.608	4.510	1.00	44.66	6
		ATOM	537	CG	LEU	В	330	-26.847	72.735	4.539	1.00	51.06	6
	10	MOTA	538	CD1	LEU	В	330	-26,226	71.367	4.640	1.00	48.58	હ
		MOTA	539	CD2	LEU	В	330	-26.364	73.450	3.299	1.00	45.18	6
		ATOM	540	С	LEU	В	330	-30.508	71.965	5.652	1.00	48.06	6
		ATOM	541	0	LEU	В	330	-31.211	71.244	4,959	1,00	49.33	8
		ATOM	542	N	ASN	В	331	-30.988	72.911	6.458	1.00	52,20	7
	15	ATOM	543	CA	ASN	В	331	-32.407	73.214	6.588	1.00	54.41	6
		ATOM	544	CB	ASN		331	-32.870	74.013	5.370	1.00	54.94	6
		ATOM	545	CG	ASN	В	331	-33.687	75.220	5.749	1.00	60.35	6
		ATOM	546	OD1	ASN	В	331	-33.182	76.130	6.430	1.00	61.84	8
		ATOM	547	ND2	ASN	В	331	-34.935	75.242	5.324	1.00	65.92	7
	20	ATOM	548	C	ASN		331	-33.251	71.959	6,731	1.00	59.00	6
		ATOM	549	0	ASN		331	-34.464	72.000	6.579	1.00	60.17	8
		ATOM	550	N	GLY		332	-32.596	70.846	7.054	1.00	58.45	7
		ATOM	551	CA	GLY		332	-33.295	69.587	7.235	1.00	58.55	6
		ATOM	552	C	GLY		332	-33.909	69.004	5.984	1.00	59.79	6 .
Ō	25	ATOM	553	0	GLY		332	-34.609	68.000	6.065		61.32	8
IU		ATOM	554	N	GLU		333	-33.639	69.628	4.838	1.00		7
Ø		ATOM	555	CA	GLU		333	-34.196	69.182	3,571		59.13	6
4		ATOM	556	CB	GLU		333	-34.966	70.323	2.885	1.00	62.40	6
'~ J		ATOM	557	CG	GLU		333	-36.099	70.963	3.690		75.69	6
4	30	ATOM	558	CD	GLU		333	-36.720	72.135	2.998		80.41	6
1	-	ATOM	559	OE1	GLU		333	-35.984	73.081	2.618	1.00	79.98	. 8
! !		ATOM	560	OE2	GLU		333	-37.966	72.158	2.830		83.81	8
		ATOM	561	С	GLU		333	-33.110	68.722	2.624		57.18	6
IJ		ATOM	562	0	GLU		333	-33.236	67.689	1.974			8
لدا	35	ATOM	563	N		В	334	-32.054	69.528	2.539	1.00	55.20	7
		ATOM	564	CA	MET	В	334	-30.926	69.259	1.653	1,00	50.85	6
Ü		ATOM	565	СВ	MET	В	334	-30.514	70.563	0.984		48.70	6
ı		ATOM	566	CG	MET	В		-29.244	70.460	0.194		45.39	6
		ATOM	567	SD	MET	В	334	-28.743	72.008	-0.624	1.00	44.56	16
	40	ATOM	568	CE	MET	В	334	-30.307	72.445	-1.503	1.00	45.25	6
		ATOM	569	C	MET			-29,711	68.634	2.319		51.59	6
		MOTA	570	0	MET	В	334	-29.185	69.161	3,291	1.00	52.52	8
		MOTA	571	N	ALA	В	335	-29.270	67.515	1.758	1.00	51,00	7
		ATOM	572	CA	ALA	В	335	-28.106	66.802	2.267	1.00	48.98	6
	45	MOTA	573	CB	ALA	В	335	-28.377	65,304	2.274	1,00	47.86	6
		ATOM	574	С	ALA			-26.931	67.108	1.371	1.00	51.01	6
		ATOM	575	0	ALA			-26.936	66.760	0.190	1.00	51.61	8
		MOTA	576	N	VAL			-25.921	67.770	1.930	1.00	46.62	7
		ATOM	577	CA	VAL			-24.730	68.142	1.152	1.00	42.35	6
	50	ATOM	578	СВ	VAL			-24.466	69.635	1.258	1.00	42.41	6
		ATOM	579		VAL			-25.695	70,418	0.860	1,00	42.00	6
		ATOM	580		VAL			-24.018	70.004	2.642		40.32	6
		ATOM	581	C	VAL			-23.493	67.390	1.611		45.33	6
		ATOM	582	0	VAL			-23.464	66.775	2.681		47.42	8
	55	ATOM	583	N	THR			-22.461	67.478	0.781		41.60	7
		ATOM	584	CA	THR			-21.172	66.818	1.041		39.69	6
		ATOM	585	СВ	THR			-20.720	66.011	-0.173		41.35	6
		ATOM	586	OG1				-20.273	66.887	-1.213		49.35	8

	5	MOTA	587	CG2	THR E	3 3 3 7	-21.869	65.175	-0.702	1.00	40.38	6
		ATOM	588	С	THR E	3 337	-20.087	67.846	1.318	1.00	37.88	6
		MOTA	589	0	THR E	3 337	-20.141	68.975	0.832	1.00	34.06	8
		ATOM	590	N	ARG E	3 338	-19.097	67.417	2.095	1.00	37.61	7
		ATOM	591	CA	ARG I	3 3 3 8	-17.942	68.241	2.442	1.00	38.68	6
	10	ATOM	592	CB	ARG I	3 3 3 8	-16.770	67.333	2.823	1.00	35.95	6
		ATOM	593	CG	ARG E	3 3 3 8	-15.455	68.042	3.064	1.00	38.83	6
		ATOM	594	CD	ARG I		-14.348	67.029	3.319	1.00	35.88	6
		ATOM	595	NE	ARG I		-14.520	66.239	4.530	1.00	37.42	7
		ATOM	596	CZ	ARG I		-14.274	66.669	5.766		30.20	6
	15	ATOM	597	NH1	ARG I		-13.794	67.892	5.973	1.00	27.98	7
		ATOM	598	NH2	ARG I		-14.481	65.847	6.788		27.40	7
		ATOM	599	C	ARG I		-17.581	69.075	1.229		38.09	6
		ATOM	600	ō	ARG I		-17.537	70.299	1.284		34.12	8
		ATOM	601	N	GLY F		-17.345	68.383	0.117		41,25	7
	20	ATOM	602	CA		3 3 3 9	-16.981	69.054	-1.119		41.35	6
		ATOM	603	c	GLY E		-18.004	70.109	-1.460	•	41.23	6
		ATOM	604	Ö		3 339	-17.736	71.291	-1.330		38.30	8
		ATOM	605	N		3 340	-19.174	69.665	-1.909		38.58	7
٦		ATOM	606	CA	GLN I		-20.258	70.564	-2.276		40.79	6
Ď	25	ATOM	607	CB	GLN H		-21.596	69.843	-2.079		40.82	6
īŪ	4.0	ATOM	608	CG	GLN H		-21.830	68.657	-3.029		41.10	6
Ø		ATOM	609	CD	GLN I		-23.154	67.937	-2.783		48.84	6
		ATOM	610	OE1	GLN I		-23.353	67.313	-1.715		50.53	8
150		ATOM	611	NE2			-24.050	68.015	-3.753		54.25	7
jah	30	ATOM	612	C	GLN I		-20.239	71,872	-1.475		41.50	6
14	30	ATOM	613	0	GLN I		-20.114	72.958	-2.032		42.72	8
51		ATOM	614	N	LEU I		-20.352	71.736	-0.156		42.00	7
		ATOM	615	CA	LEU I		-20.375	72.879	0.746		38.10	6
IJ		ATOM	616	CB	LEU I		-20.401	72.419	2.201		36.66	6
	35	ATOM	617	CG	LEU E		-20.678	73.514	3.194		39.94	6
	33	ATOM	618	CD1			-22.088	74.038	2.936		34.98	6
Ē		ATOM	619	CD2	LEU I		-20.570	72.990	4.609		40.95	6
ø		ATOM	620	C	LEU E		-19.170	73.763	0.543		36.37	6
		ATOM	621	0	LEU E		-19.293	74.974	0.497		37.89	8
	40	ATOM	622	N	LYS E		-18.003	73.136	0.433		33.29	7
	40	ATOM	623	CA	LYS E		-16.737	73.130	0.239		35.17	6
		ATOM	624	CB	LYS E		-15.603	72.821	0.176		34.97	6
		ATOM	625	CG	LYS E		-14.210	73.401	0.306		40.00	6
		ATOM	626	CD	LYS E		-13.155	72.288	0.316		34.48	6
	45	ATOM	627	CE	LYS E		-11.775	72.200	0.755		37.54	6
	42	ATOM	628	NZ	LYS E		-10.790	71.680	0.981		42.32	7
			629	C	LYS E		-16.744	74.685	-1.038		38.29	6
		ATOM			LYS E		-16.725	75.911	-0.993		36.23	8
		ATOM	630	0				73.990			39.25	7
	50	ATOM	631	N	ASN E		-16.760	74.609	-2.172 -3.481		40.19	6
	30	ATOM	632	CA	ASN E		-16.762				37.96	6
		ATOM	633	CB	ASN E		-16.977	73.539	-4.551 -4.277		39.22	6
		ATOM	634	CG	ASN E		-16.178	72.272	-4.277		42.37	8
		ATOM	635		ASN E		-14.938	72.313	-4.106			
	55	ATOM	636		ASN E		-16.877	71.144	-4.259 -3.547		42.19	7 6
	در	ATOM	637	C	ASN E		-17.894	75.624	-3.547		40.12	8
		ATOM	638	0	ASN E		-17.835	76.600	-4.284 -2.756		36.01	7
		ATOM	639	N	GLY E		-18.934	75.361	-2.756 -2.708		40.95	6
		ATOM	640	CA	GLY E	344	-20.101	76.222	-2.709	1.00	39.25	0

	5	ATOM	641	C	GLY	В	344	-19.867	77.636	-2.258	1.00	38.26	6
		ATOM	642	0	GLY	В	344	-20.715	78.501	-2:484	1.00	35.69	8
		ATOM	643	N	GLY	В	345	-18.724	77.871	-1.619	1.00	35.89	7
		ATOM	644	CA	GLY	В	345	-18.426	79.209	-1.159	1.00	34.00	6
		ATOM	645	С	GLY	В	345	-17.848	79.298	0.230	1.00	38.64	6
	10	ATOM	646	0	GLY	В	345	-17.216	80.303	0.573	1.00	38.14	8
		ATOM	647	N	LEU			-18.071	78.266	1.041	1.00	39.52	7
		ATOM	648	CA	LEU			-17.563	78.279	2.403	· ·	36.05	6
	•	ATOM	649	СВ	LEU			-18.311	77.256	3.269		35.72	6
		ATOM	650	CG	LEU			-19.800	77.473	3.378		34.89	6
	15	ATOM	651	CD1				-20.322	76.678	4.554		44.09	6
		ATOM	652	CD2	LEU		346	-20.086	78.937	3.612		34.84	6
		ATOM	653	C	LEU		346	-16.079	78.018	2.445		33.52	6
		ATOM	654	Ö	LEU		346	-15.392	78.387	3.394		35.58	8
		ATOM	655	N	GLY		347	-15.586	77.388	1.385		30.47	7
	20	ATOM	656	CA	GLY		347	-14.174	77.078	1.305		33.01	6
	20	ATOM	657	C	GLY			-13.768	76.214	2.477		30.72	6
		ATOM	658	Ö	GLY			-14.433	75.243	2.808		30.89	8
		ATOM	659	N	VAL			-12.647	76.585	3,087		31.30	7
		ATOM	660	CA	VAL			-12.097	75.867	4.227		31.27	6
Ď	25	ATOM	661	CB	VAL			-10.889	76.609	4.817		31.66	6
īŪ	23	ATOM	662		VAL		348	-11.292	77.974	5.360		20.19	6
ľĎ		ATOM	663		VAL			-10.250	75.786	5.905		24.77	6
1=		ATOM	664	C	VAL			-13.136	75.651	5.360		33.84	6
1		ATOM	665	0	VAL			-13.130	74.707	6.153		29.99	8
-4	30	ATOM	666	N	VAL			-14.157	76.518	5.449		33.31	7
ا ب	30	ATOM	667	CA	VAL		349	-15.147	76.319	6.483		32.23	6
# !		ATOM	668	CB	VAL		349	-16.226	77.393	6.476		32.59	6
		ATOM	669		VAL		349	-17.342	76.979	7.399		33.68	. 6
IJ		ATOM	670		VAL		349	-17.342	78.703	6.959		32.30	6
IJ	35	ATOM	671	C	VAL		349	-15.792	74.987	6.380		34.91	6
	33	ATOM	672	0	VAL		349	-16.055	74.359	7.394		33.73	8
ı.D		ATOM	673	N	SER			-16.054	74.507	5.176		32.81	7
ŧ Q		ATOM	674	CA	SER			-16.695	73.215	5.100		30.10	6
		ATOM	675	CB	SER			-16.772	72.697	3.684		24.95	6
	40	ATOM	676	OG	SER			-17.538	71.502	3.644		23.16	8
	70		677		SER			-15.910	72.254	5.942		31.59	6
		ATOM ATOM	678	С 0	SER			-16.417	71.807	6.950		37.62	8
		ATOM	679	N	ASP			-14.675	71.942	5.565		28.60	7
		ATOM	680	CA	ASP			-13.905	71.010	6.378	•	29.82	6
	45	ATOM	681	CB	ASP			-12.419	71.010	6.050		27.49	6
	43	ATOM	682	CG	ASP			-12.151	71.094	4.585		30.22	6
			683		ASP			-12.131	72.174	3.954		32.61	8
		ATOM	684		ASP			-12.013	69.980	4.017		30.02	8
		ATOM							71.343	7.861		30.63	6
	50	ATOM	685	C	ASP			-14.176				29.54	
	50	ATOM	686	0	ASP			-14.458	70.474	8.681			8 7
		ATOM	687	N	ALA			-14.111	72.629	8.177		25.33	
		ATOM	688	CA	ALA			-14.346	73.092	9.533		28.59	6
		ATOM	689	CB	ALA			-14.252	74.606	9.572		20.95	6
	55	ATOM	690	С	ALA			-15.690 -15.757	72.630	10.086		29.69	6
	J J	ATOM	691	0	ALA			-15.757 -16.754	72.068	11.164		30.36	8
		ATOM	692	N	ILE			-16.754	72.884	9.330		27.63	7 6
		ATOM	693	CA	ILE			-18.096 -19.144	72.506	9.729		27.55	6
		ATOM	694	СВ	ILE	ø	333	-19.144	73.129	8.800	1.00	28.04	Ø

	5	MOTA	695	CG2	ILE	В	353	-20.529	72.673	9.195	1.00	23.68	6
		ATOM	696	CG1	ILE	B	353	-19.108	74.657	8.869	1.00	27.33	6
		ATOM	697	CD1	ILE	В	353	-20.141	75.313	7.964		26.23	б
		MOTA	698	С	ILE	В	353	-18.309	71.002	9.775	1.00	30.88	6
		ATOM	699	0	ILE	В	353	-19.021	70.499	10.639		31.22	8
	10	ATOM	700	N			354	-17.728	70.279	8.822		29.86	7
		ATOM	701	CA			354	-17.881	68.831	8.797		31.08	6
		ATOM	702	СВ			354	-17.461	68.249	7.439		28.80	6
		ATOM	703	CG			354	-18.568	68.233	6.405		28.80	6
		ATOM	704	CD1			354	-19.031	69.403	5.833		30.96	6
	15	ATOM	705		PHE			-19.150	67.027	6.034		29.45	6
		ATOM	706	CEl	PHE			-20.066	69.362	4.902		27.12	6
		ATOM	707	CE2			354	-20.186	66.978	5.104		25.19	6
		ATOM	708	CZ			354	-20.644	68.146	4.535		28.09	6
		ATOM	709	c			354	-17.041	68.223	9.913		29.17	6
	20	ATOM	710	Ö			354	-17.544	67.429	10.700		32.62	8
		ATOM	711	N			355	-15.761	68.593	9.972		23.86	7
		ATOM	712	CA			355	-14.864	68.090	11.005		25.34	6
		ATOM	713	CB			355	-13.582	68.929	11.005		21.41	6
		ATOM	714	CG			355	-12.548	68.456	10.086		32.08	6
Ö	25	ATOM	715		ASP			-12.899	68.069	8.944		33.58	8
ĪŪ		ATOM	716		ASP			-11.345	68.477	10.450		33.20	8
D		ATOM	717	C			355	-15.570	68.153	12.357		27.86	6
		ATOM	718	0			355	-15.430	67.257	13.182		32.42	8
W		ATOM	719	N			356	-16.339	69.223	12.561		26.84	. 7
	30	ATOM	720	CA			356	-17.085	69.400	13.803		28.66	6
1	50	ATOM	721	CB	LEU		356	-17.832	70.742	13.800		25.37	6
41		ATOM	722	CG			356	-18.655	71.091	15.023		27.61	6
		ATOM	723	CD1	LEU			-17.729	71.031	16.191		25.43	6
ليزا		ATOM	724	CD2	LEU			-19.430	72.363	14.808		27.49	6
	35	ATOM	725	C			356	-18.084	68.260	13.883		30.44	6
	J.J	ATOM	726	0			356	-18.054	67.445	14.804		31.55	8
Û		ATOM	727	N	GLY			-18.972	68.214	12.891		32.69	7
Ð		ATOM	728	CA	GLY			-20.001	67.186	12.846		29.87	6
•		ATOM	729	C	GLY			-19.486	65.832	13.279		33.12	6
	40	ATOM	730	0	GLY			-20.032		14.207		29.41	8
	10	ATOM	731	N	MET	_		-18.444	65.351	12.593		33.31	7
		ATOM	732	CA	MET			-17.834	64,066	12.902		35.87	6
		ATOM	733	СВ	MET			-16.513	63.903	12.151		34.56	6
		ATOM	734	CG	MET			-16.649	63,908	10.657		46.43	6
	45	ATOM	735	SD	MET			-15.094		9.751		42.13	16
		ATOM	736	CE	MET			-14.121	65.063	10.228		44.29	6
		ATOM	737	C	MET			-17.552	63.976	14.392		33.26	6
		ATOM	738	0	MET			-18.019	63.075	15.075		36.39	8
		ATOM	739	N	SER			-16.766	64.933	14.875		33.31	7
	50	ATOM	740	CA	SER			-16.380	64.998	16.270		34.39	6
	50	ATOM	741	СВ	SER			-15.724	66.339	16.541		30.84	6
		ATOM	742	OG	SER			-15.130	66.355	17.825		47.14	8
		ATOM	743	C	SER			-17.579	64.813	17.169		36.43	6
		ATOM	744	0	SER			-17.635	63.853	17.109		35.46	8
	55	ATOM	745	N	LEU			-18.525	65.744	17.922		36.74	7
		ATOM	746	CA	LEU			-18.323	65.729	17.889		35.44	6
		ATOM	747	CB	LEU			-19.741	66.817	17.809		34.16	6
		ATOM	748	CG	LEU			-20.766	68.255	17.405		34.16	6
		-41 OL1	, 40	UG	TE (ט	200	~20.203	00.433	11.313		34.39	Ð

	5	ATOM	749	CD1	LEU	В	360	-21.394	69.181	17.212	1.00	33.53	6
		ATOM	750	CD2	LEU	В	360	-19.869	68.486	19.010	1.00	31.69	б
		ATOM	751	С	LEU	В	360	-20.464	64.397	17.924	1.00	38.72	6
		ATOM	752	0			360	-21.021	64.011	18.958		38.29	8
		ATOM	753	N			361	-20.466	63.708	16.791		40.96	7
	10	ATOM	754	CA			361	-21.106	62.416	16.721		45.67	6
	10	ATOM	755	CB			361	-20.532	61.630	15.551		46.45	6
			756	OG									
		ATOM					361	-20.750	62.314	14.322		51.81	8
		ATOM	757	С			361	-20.895	61.638	18.018		44.49	6
		ATOM	758	0	SER		361	-21.696	60.793	18.362		46.67	8
	15	MOTA	759	N			362	-19.811	61.953	18.726		41.44	7
		MOTA	760	ÇA			362	-19.453	61.309	19.972		42.13	6
		ATOM	761	CB	SER		362	-17.962	61.510	20.234	1.00	42.61	6
		ATOM	762	OG	SER	В	362	-17.164	61.025	19.158	1.00	51.87	8
		ATOM	763	С	SER	В	362	-20.228	61.812	21.174	1.00	38.41	6
	20	ATOM	764	0	SER	В	362	-20.602	61.025	22.035	1.00	38.01	8
		ATOM	765	N	PHE	В	363	-20.455	63.123	21.228	1.00	34.55	7
		ATOM	766	CA	PHE	В	363	-21.150	63.735	22.346		32.96	6
		ATOM	767	СВ			363	-21.006	65.245	22.285		31.99	6
		ATOM	768	CG			363	-19.578	65.719	22.378		29.97	6
Ď	25	ATOM	769	CD1				-19.286	67.058	22.447		30.61	6
ĪŪ		ATOM	770	CD2	PHE		363	-18.536	64.800	22.391		32.02	6
Ď		ATOM	771	CE1	PHE		363	-17.966	67.489	22.543		33.67	6
-			772	CE2									
اً براً		ATOM					363	-17.221	65.222	22.484		30.91	6
ļ÷	20	ATOM	773	CZ	PHE		363	-16.927	66.557	22.554		29.33	6
أميا	30	ATOM	774	С			363	-22.617	63.361	22,482		30.52	6
11		MOTA	775	0			363	-23.142	63.331	23.596		32.19	8
		MOTA	776	N	ASN			-23.279	63.075	21.361		33,51	7
لدا		ATOM	777	CA	ASN		364	-24.683	62.701	21.377		38.03	٠ 6
Ы		MOTA	778	CB	ASN		364	-24.855	61.369	22.111	1.00	42.32	6
מכועו	35	MOTA	779	CG	ASN	В	364	-24.008	60.271	21.524	1.00	53.11	6
		ATOM	780	OD1	ASN	В	364	-24.183	59.895	20.344	1.00	59.51	8
Ū		ATOM	781	ND2	ASN	В	364	-23.102	59.746	22.325	1.00	55.95	7
*Bell		ATOM	782	С	ASN	В	364	-25.494	63.771	22.091	1.00	31.89	6
		ATOM	783	0	ASN	В	364	-26.279	63.471	22.990	1.00	30.28	8
	40	ATOM	784	N	LEU	В	365	-25.306	65.018	21.673	1.00	27.62	7
		ATOM	785	CA	LEU	В	365	-26.005	66.144	22.280		29.36	6
		MOTA	786	СВ	LEU			-25.402	67.443	21.743		27.54	6
		ATOM	787	CG	LEU			-23.897	67.453	21.738		38.91	6
		ATOM	788		LEU			-23.391	68.766	21.190		34.47	6
	45	ATOM	789		LEU			-23.393	67.214	23.143		34.24	6
		ATOM	790	C	LEU			-27.496	66.074	21.987		26.23	6
		MOTA	791	0	LEU			-27.430	65.790			27.06	
										20.863			8
		ATOM	792	N	ASP			-28.296	66.321	23.022		25.23	7
	50	MOTA	793	CA	ASP			-29.752	66.320	22.878		26.07	6
	50	ATOM	794	СВ	ASP			-30.441	65.651	24.076		29.68	6
		MOTA	795	CG	ASP			-30.221	66.374	25.360		35.74	6
		ATOM	796		ASP			-30.277	67.617	25.387		36.78	8
		ATOM	797	OD2	ASP			-30.017	65.711	26.410		41.23	8
		ATOM	798	C	ASP	В	366	-30.230	67.752	22.740	1.00	27.70	6
	55	MOTA	799	0	ASP	В	366	-29.552	68.678	23.171	1.00	31.94	8
		ATOM	800	N	ASP	В	367	-31.409	67.913	22.142	1.00	29.18	7
		ATOM	801	CA	ASP	В	367	-32.031	69.225	21.930	1.00	32.72	6
		ATOM	802	СВ	ASP	В	367	-33.558	69.106	22.071	1.00	38.04	6

	5	ATOM	803	CG	ASP	В	367	-34.172	68.166	21.081	1.00	42.43	6
		ATOM	804	OD1	ASP	В	367	-34.051	68.373	19.854	1.00	35.95	8
		ATOM	805	OD2	ASP	В	367	-34.829	67.188	21.504	1.00	51.42	8
		ATOM	806	C	ASP	В	367	-31.496	70.238	22.959	1.00	33.71	6
		ATOM	807	0	ASP	В	367	-30.791	71.188	22.624	1.00	38.30	8
	10	ATOM	808	N	THR	В	368	-31.858	69.997	24.218	1.00	31.06	7
		ATOM	809	CA	THR	В	368	-31.453	70.822	25.344	1.00	26.28	6
		ATOM	810	CB	THR	В	368	~31.567	70.020	26.643	1.00	27.30	б
		ATOM	811	OG1	THR	В	368	-32.916	69.578	26.824	1.00	33.42	8
		ATOM	812	CG2	THR	В	368	-31.143	70.855	27.824	1.00	25.16	6
	15	ATOM	813	C	THR	B	368	-30.025	71.315	25.181	1.00	21.13	6
		ATOM	814	0	THR	В	368	-29.746	72.508	25.150	1.00	23.17	8
		ATOM	815	N	GLU	В	369	-29.123	70.354	25.072	1.00	21.32	7
		ATOM	816	CA	GLU	В	369	-27.711	70.634	24.932	1.00	28.00	6
		ATOM	817	CB	GLU	В	369	-26.947	69.306	24.878	1.00	32,79	6
	20	ATOM	818	CG	GLU	В	369	-27.229	68.433	26.130	1.00	36.29	6
		ATOM	819	CD	GLU	В	369	-26.689	67.051	26,083	1.00	41.03	6
		ATOM	820	OE1	GLU	В	369	-26.960	66.318	25.102	1.00	42.05	8
		ATOM	821	OE2	GLU	В	369	-25.992	66.645	27.048	1.00	42.03	8
		ATOM	822	С	GLU	В	369	-27.428	71.527	23.731	1.00	25.57	6
ıØ	25	ATOM	823	0	GLU	B.	369	-26.780	72.549	23.886	1.00	20.56	8
U		ATOM	824	N	VAL	В	370	-27.922	71.154	22.548	1.00	25.39	7
D		ATOM	825	CA	VAL	В	370	-27.710	71.968	21.355	1.00	25.99	6
ļ. <u>4</u>		ATOM	826	CB	VAL	В	370	-28.457	71,429	20.130	1.00	26.15	6
14		ATOM	827	CG1	VAL	В	370	-28.255	72.358	18.953	1.00	27.65	6
/·J	30	ATOM	828	CG2	VAL	В	370	-28.014	70.021	19.788	1.00	17.70	6
		ATOM	829	Ç	VAL	В	370	-28.238	73.346	21.676	1.00	26.49	6
:: (3		ATOM	830	0	VAL	В	370	-27.580	74.351	21.445	1.00	28.16	8
닚		MOTA	831	N	ALA	В	371	-29.450	73.362	22.213	1.00	21,01	. 7
		ATOM	832	CA	ALA			-30.145	74.589	22.573	1.00	19.57	6
ij	35	ATOM	833	CB	ALA			-31.414	74.246	23.335		18.62	
Ũ		ATOM	834	С	ALA			-29.256	75.501	23.401		23.48	6
Ü		ATOM	835	0	ALA			-28.936	76.613	22.989		32,67	8
٠.		ATOM	836	N	LEU			-28.860	75.008	24.571		22.89	7
	40	ATOM	837	CA	LEU			-27.999	75.758	25.472	-	23.28	6
	40	ATOM	838	CB	LEU			-27.606	74.860			27.76	6
		ATOM	839	CG	LEU			-28.728	74.524	27.619		21.18	6
		MOTA	840		LEU			-28.272	73.529	28.648		27.64	6
		MOTA	841		LEU			-29.198	75.801	28.284		20.90	6
	45	ATOM	842	C	LEU			-26.769	76.268	24.722		21.34	6
	45	ATOM	843	0	LEU			-26.439	77.454	24.762		23.16	8
		ATOM	844	N	LEU			-26.111	75.349	24.023		24.42	7
		ATOM	845	CA	LEU			-24.916	75.669	23.254		23.78	6
		ATOM	846	СВ	LEU			-24.525	74.446	22.396		22.18	6
	50	ATOM	847	CG	LEU			-23.098	74.283	21.942		31.52	6
	50	ATOM	848		LEU			-22.196	74.576	23.100		31.93	6
		ATOM	849		LEU			-22.873	72.889	21.457		30.24	6
		ATOM	850	С	LEU			-25.235	76.902	22.405		25.69	6
		ATOM	851	0	LEU			-24.491	77.880	22.416		30.13	8
	55	ATOM	852	N	GLN			-26.368	76.842	21.707		26.24	7
	"	ATOM	853	CA	GLN			-26.836	77.922	20.839		21.60	6
		ATOM	854	CB	GLN			-28.196	77.571	20.221		24.57	6
		ATOM	855 856	CG	GLN			-28.188 -29.538	76.330	19.348		21.02	6
		ATOM	856	CD	GLN	ø	3/4	-29.538	76.071	18.69 8	1.00	22.86	6

								•					
	5	ATOM	857	OE1	GLN	В	374	~29.720	75.049	18.009	1.00	24.07	8
		ATOM	858	NE2	GLN	В	374	-30.473	76.980	18.901	1.00	25.59	7
		ATOM	859	С	GLN	В	374	-26.988	79.249	21.569	1.00	20.66	6
		ATOM	860	0	GLN	В	374	-26.733	80.307	20.994	1.00	24.47	8
		ATOM	861	N	ALA			-27.429	79.182	22.825	1.00	16.26	7
	10	ATOM	862	CA	ALA			-27.639	80.374	23.631	1.00	17.16	6
		ATOM	863	CB	ALA			-28.435	80.025	24.865		19.53	6
		ATOM	864	c	ALA			-26.304	80.966	24.025		25.13	6
		ATOM	865	Ö	ALA			-26.074	82.154	23.833		23.81	8
		ATOM	866	N	VAL			-25.433	80.111	24.568		24.57	7
	15	ATOM	867	ÇA	VAL			-24.102	80.526	24.986		25.80	6
	1.5	ATOM	868	СВ	VAL			-23.192	79.321	25.234		26.48	6
		ATOM	869	eg1			376	-21.806	79.780	25.620		23.20	6
		ATOM	870	CG2	VAL		376	-23.771	78.433	26.310		19.08	6
		ATOM	871	C	VAL			-23.510	81.403	23.898		25.69	6
	20	ATOM	872	0	VAL			-22.796	82.364	24.166		27.07	8
	20	ATOM	873	N	LEU			-23.827	81.049	22.659		23.09	7
		ATOM	874	ÇA	LEU			-23.340	81.774	21.492		22.86	6
		ATOM	875	CB	LEU			-23.540	80.920	20.230		18.50	6
, ma			876	CG	LEU			-23.332 -22.756	79.638	20.230		22.65	6
٥	25	MOTA MOTA	877	CD1				-23.221	78.786	19.000	•	16.70	6
īŪ	23		878	CD2				-23.221	79.995	20.000		19.58	6
Ø		ATOM	879	CDZ	LEU			-24.073	83.102	21.384		26.14	6
i n		ATOM							84.164	21.384		20.62	8
<u>-</u> 'ماا		ATOM	880	0	LEU LEU			-23.464 -25.396	83.023	21.419		28.99	7
ļub.	30	ATOM	881	N ~ D				-26.228	84.217	21.263		28.87	6
	30	ATOM	882	CA	LEU LEU			-20.226	83.894	21.147		26.89	6
11		ATOM	883	CB				-28.648	85.068	21.500		28.83	6
		ATOM	884	CG	LEU		378						6
Į,		MOTA	885	CD1	LEU			-28.507	85.854	20.225		27.97	6
	25	ATOM	886	CD2	LEU		378	-30.072	84.605	21.692		27.69	6
IJ S	35	ATOM	887	C	LEU		378	-25.738	85.280	22.090		31.09	
ιΩ		ATOM	888	0	LEU		378	-25.398	86.379	21.651		31.77	8 7
		ATOM	889	N	MET			-25.695	84.931	23.376		31.44	
		ATOM	890	CA	MET			-25,291	85.851	24.434		32.62	6 6
	.40	ATOM	891	CB	MET			-25.797	85.335	25.793		31.45	
	40	ATOM	892	CG	MET	_		-27.332	85.262	25.883		38.75	6
		ATOM	893	SD	MET			-28.020	86.915	25.550		41.27	16
		ATOM	894	CE	MET			-29.814	86.586	25.513		35.68	6
		ATOM	895	C	MET			-23,796	86.129	24.538		33.72	6
		ATOM	896	0	MET			-23.246	86.190	25.633		36.29	8
	45	ATOM	897	N	SER			-23.152	86.335	23.399	-	34.49	7
		ATOM	898	CA	SER			-21.738	86.659	23.391		33.97	6
		MOTA	899	CB	SER			-21.132	86.360	22.010		31.24	6
		ATOM	900	OG	SER			-21.224	84.978	21.696		39.42	8
	50	ATOM	901	C	SER			-21.635	88.145	23.705		39.69	6
	50	ATOM	902	0	SER			-22.084	88.989	22.933		44.64	8
		ATOM	903	N	SER			-21.053	88.451	24.857		41.04	7
		ATOM	904	CA	SER			-20.907	89.826	25.308		44.91	6
		ATOM	905	СВ	SER			-20.610	89.832	26.797		44.50	6
	<i></i>	ATOM	906	OG	SER			-19.351	89.229	27.037		45.42	8
	55	MOTA	907	C	SER			-19.815	90.614	24.602		44.59	6
		MOTA	908	0	SER			-19.725	91.825	24.751		49.32	8
		ATOM	909	N	ASP			-18.977	89.922	23.848		43.75	7
		MOTA	910	CA	ASP	В	382	-17.886	90,556	23.144	1.00	43.93	6

	5	ATOM	911	CB	ASP	В	382	-16.727	89.562	23.028	1.00	48.39	6
		ATOM	912	CG	ASP	В	382	-17.142	88.232	22.471	1.00	53,23	б
		ATOM	913	OD1	ASP	В	382	-18.102	87.621	23.002	1.00	56.97	8
		ATOM	914	OD2	ASP	В	382	-16.513	87.753	21.480	1.00	58.91	8
		ATOM	915	С	ASP		382	-18.191	91.172	21.772	1.00	41.09	6
	10	ATOM	916	Ŏ	ASP		382	-17.366	91.899	21.229		40.93	8
	. •	MOTA	917	N	ARG		383	-19.369	90.908	21,224		42.63	7
		ATOM	918	CA	ARG		383	-19.698	91.445	19.934		43.32	6
			919		ARG			-21.131	91.101	19.557		42.31	6
		ATOM		CB					89.672			40.83	6
		ATOM	920	CG	ARG			-21.619		19.811			
	15	ATOM	921	CD	ARG		383	-21.144	88.627	18.804		38.09	6
		MOTA	922	NE	ARG		383	-21,922	87.415	18.943	-	37.33	7
		MOTA	923	CZ	ARG		383	-21.584	86.250	18.411	1.00	38.35	6
		ATOM	924	NH1				-20.465	86.143	17.700	1.00	33.70	7
		ATOM	925		ARG		383	-22.369	85.196	18.604		35.46	7
	20	ATOM	926	C	ARG	В	383	-19.591	92.958	20,007	1.00	44.96	6
		ATOM	927	0	ARG	В	383	-20.050	93.577	20.980	1.00	45.60	8
		ATOM	928	N	PRO	В	384	-18.975	93.579	19.005	1.00	45.33	7
		MOTA	929	CD	PRO	В	384	-18.395	92.881	17.854	1,00	46.85	6
		ATOM	930	CA	PRO	B	384	-18.808	95.035	18.947	1.00	47.37	6
D	25	ATOM	931	СВ	PRO	В	384	-17.868	95.255	17.764	1.00	46.90	6
ľŪ		ATOM	932	CG	PRO	В	384	~17.575	93.934	17.187	1.00	46.41	6
Ü		ATOM	933	C	PRO			-20,125	95,778	18.762	1.00	48.29	6
		ATOM	934	0	PRO			-21.048	95.277	18.120		48.34	8
`J		ATOM	935	N	GLY			-20.185	96.994	19.314		49.88	7
æ	30	ATOM	936	CA	GLY			-21.371	97.838	19.192		50.35	6
*	30	ATOM	937	C	GLY		385	-22.410	97.615	20.265		50.70	6
£ i		ATOM	938	Ö	GLY		385	-23.382	98.363	20.374		53.48	8
		ATOM	939	N	LEU		386	-22.205	96.557	21.044	•	49.04	7
لدا			940		LEU		386	-23.136	96.211	22.101		50.53	6
I.U	35	ATOM		CA						22.853	-	45.17	6
	33	ATOM	941	CB	LEU		386	-22.640	94.972				
Ð		ATOM	942	CG	LEU			-22.744	93.653	22.121		48.26	6
ŧΩ		ATOM	943	CD1	LEU		386	-22.122	92.525	22.938	1.00	41.68	. 6
		ATOM	944	CD2			386	-24.215	93.376	21.852	1.00	38.40	6
	4.0	ATOM	945	C	LEU			-23.322	97.357	23.058	1.00	52.13	6
	40	MOTA	946	Ö	LEU			-22.438	98.182	23.234	1.00	53.67	8
		atom	947	N	ALA			-24.499	97.398	23.666		53.42	7
		ATOM	948		ALA			-24.830	98.441	24.624		56.01	6
		ATOM	949	CB	ALA :			-26.223	98.993	24.339		56.47	6
		ATOM	950	С	ALA :			-24.775	97.853	26.024		55.52	6
	45	ATOM	951	0	ALA :	В	387	-23.798	98.027	26.753		53.75	8
		ATOM	952	N	CYS	В	388	-25,843	97.145	26.371	1.00	56.03	7
		ATOM	953	CA	CYS	В	388	-26.000	96.525	27.673	1.00	59.57	6
		ATOM	954	CB	CYS	В	388	-27.469	96.134	27.839	1.00	59.23	6
		ATOM	955	SG	CYS	В	388	-28,620	97.392	27.264	1.00	58.64	16
	50	ATOM	956	С	CYS	В	388	-25.105	95.283	27.798	1.00	62.18	6
		ATOM	957	0	CYS	В	388	-25.590	94.164	27.868	1.00	67.88	8
		ATOM	958	N	VAL			-23.789	95510	27.824		60.78	7
		ATOM	959	CA	VAL			-22.797	94.434	27.959	1.00	57.70	6
		ATOM	960	СВ	VAL			-21.355	94.976	27.998		57.09	6
	55	ATOM	961		VAL			-20.361	93.832	28.085		59.03	6
		ATOM	962		VAL			-21.065	95.845	26.791		53.98	6
		ATOM	963	C	VAL			-23.078	93.642	29.230		57.77	6
		ATOM	964	Ö	VAL			-23.727	92.602	29.203		60.94	8
		0	J 0 3	•	4 A.A.D. 1	_		23.727	JE . 00E	27.203	1.00	30.33	J

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	5	MOTA	1019	CD	GLN	В	396	-21.214	83.871	27.016	1.00	29.46	6
		ATOM	1020	OE1	GLN	В	396	-20.547	84.930	27.109	1.00	34.65	8
		ATOM	1021	NE2	GLN			-21.112	83.032	25.992		27.21	7
		ATOM	1022	С	GLN			-23.908	83.207	30.434		37.13	6
		ATOM	1023	o	GLN		396	-23.876	81.986	30.384		37.36	8
	10		1024	N	ASP			-23.544	83.903	31.508		38.61	7
	10	ATOM											
		ATOM	1025	CA	ASP			-23.069	83.250	32.717		40.37	6
		ATOM	1026	CB	ASP			-22.617	84.297	33.754		40.51	6
		ATOM	1027	CG	ASP			-21.360	85.025	33.352		43.77	6
		MOTA	1028	OD1				-20.337	84.366	33.054		46.50	8
	15	ATOM	1029	002	ASP	В	397	-21.343	86.287	33.350	1.00	51.34	8
		ATOM	1030	С	ASP	В	397	-24.223	82.422	33.267	1.00	38.62	б
		MOTA	1031	0	ASP	В	397	-24.023	81.327	33.778	1.00	39.20	8
		ATOM	1032	N	SER	В	398	-25.432	82.962	33,138	1.00	37.84	7
		ATOM	1033	ÇA	SER			-26.633	82.293	33.622		37.80	6
	20	ATOM	1034	СВ	SER		398	-27.830	83.246	33.501		34.28	6
		ATOM	1035	OG	SER		398	-28.995	82.715	34.114		46.60	8
		ATOM	1036	C	SER		398	-26.911	80.997	32.867		38.41	6
		ATOM	1030	0	SER			-27.454	80.047	33.433		39.98	8
								-27.434				34.82	7
	36	MOTA	1038	N	PHE		399		80.963	31.587			
Ü	25	ATOM	1039	CA	PHE			-26.772	79.768	30.781		35.96	6
IJ		ATOM	1040	CB	PHE			-26.892	80.100	29.293		35.75	6
Ø		ATOM	1041	CG	PHE			-28.211	80.717	28.906		39.30	6
±		MOTA	1042	CD1				-28.466	82.056	29.109		39.86	6
V		ATOM	1043	CD2	PHE			-29.194	79.938	28.355	1.00	36.81	6
nd.	30	ATOM	1044	CE1	PHE	В	399	-29.700	82.602	28.739	1.00	41.25	6
' -J		ATOM	1045	CE2	PHE	В	399	-30.424	80.483	27.987	1.00	43.61	6
21		ATOM	1046	CZ	PHE	В	399	-30.677	81.813	28.181	1.00	40.34	6
		ATOM	1047	С	PHE	В	399	-25.658	78.754	30.976	1.00	33.48	6
ليا		ATOM	1048	0	PHE	В	399	-25.927	77.589	31.256	1.00	26.86	8
	35	ATOM	1049	N	LEU		400	-24.408	79.187	30.796		31.47	7
		ATOM	1050	CA	LEU		400	-23.275	78.291	30.945		37.41	6
Ú		ATOM	1051	СВ	LEU		400	-21.976	79.091	31.030		34.24	6
ıΩ		ATOM	1052	CG		В	400	-21.470	79.642	29.726		35.10	6
		ATOM	1053	CD1	LEU		400	-20.121	80.304	29.917		26.60	6
	40	ATOM	1054		LEU			-21.326	78.488	28.759	1.00		6
	70												
		ATOM	1055	C	LEU			-23.430 -23.366	77.376	32.145		38.84	6
		ATOM	1056	0	LEU				76.157	32.007		40.38	8
		MOTA	1057	N	LEU			-23.639	77.968	33.321		42.79	7
	4.5	ATOM	1058	CA	LEU			-23.801	77.181	34.537		43.48	6
	45	ATOM	1059	CB	LEU			-24.226	78.067	35.712		44.73	6
		ATOM	1060	CG	LEU			-24.378	77.303	37.012		51.39	6
		ATOM	1061		LEU			-22.990	76,844	37.484		50.11	6
		ATOM	1062	CD2	LEU			-25.027	78.163	38,083		49.30	6
		ATOM	1063	C	LEU	В	401	-24.854	76.095	34.311	1.00	41.62	6
	50	ATOM	1064	0	LEU	В	401	-24.576	74.900	34.427	1.00	45.14	8
		ATOM	1065	N	ALA	В	402	-26.068	76.532	33.997	1.00	37.92	7
		ATOM	1066	CA	ALA			-27.177	75.631	33.752		29.90	6
		ATOM	1067	СВ	ALA			-28.361	76.433	33.200		30.70	6
		ATOM	1068	c	ALA			-26.779	74.521	32.773		28,88	6
	55	ATOM	1069	Ö	ALA			-27.078	73.347	32.996		32.14	8
		ATOM	1070	N	PHE			-26.091	74.908	31.698		31.07	7
		ATOM	1071	CA	PHE			-25.655	73.970	30.673		29.90	6
		ATOM	1072	CB	PHE			-24.847	74.715	29.607		27.03	6
		.14 017	1012	CD	E 110	U	703	24.047	, 7. / 13	27.007	1.00	27.03	Ų

	5	MOTA	1073	CG	PHE	В	403	-24.557	73.908	28.359	1.00	26.97	6
		MOTA	1074	CD1	-		403	-23.916	74.494	27.272	1.00	25.55	6
		ATOM	1075	CD2	PHE	В	403	-24.939	72.583	28.271	1.00	19.75	. 6
		MOTA	1076	CE1	PHE	В	403	-23.670	73.765	26.104		27.90	6
		MOTA	1077	CE2	PHE	В	403	-24.693	71.848	27.102	1,00	22.56	6
	10	MOTA	1078	CZ	PHE	В	403	-24.057	72,439	26.020	1.00	22.24	6
		MOTA	1079	С	PHE	В	403	-24.810	72.902	31.329	1.00	28.82	6
		MOTA	1080	0	PHE	В	403	-25.092	71.726	31.205	1.00	26.00	8
		MOTA	1081	N	GLU	В	404	-23.776	73.335	32.037	1.00	30.25	7
		ATOM	1082	CA	GLU	В	404	-22.865	72.419	32.712	1.00	34.03	6
	15	ATOM	1083	CB	GLU	В	404	-21.835	73.215	33.527	1.00	39.45	6
		MOTA	1084	CG	GLU	В	404	-20.654	72.384	34.068	1.00	47.68	6
		MOŢA	1085	CD	GLU	В	404	-19.750	73.129	34.996	1.00	54.02	6
		ATOM	1086	OE1	GLU	В	404	-19.372	74.290	34.701	1.00	57.27	8
		ATOM	1087	OE2	GLU	В	404	-19.369	72.555	36.048	1.00	63.85	8
	20	ATOM	1088	С	GLU	В	404	-23.645	71.509	33.642	1.00	36.01	6
		ATOM	1089	0	GLU	В	404	-23.470	70.292	33.640	1.00	38.64	8
		ATOM	1090	N	HIS	В	405	-24.492	72.131	34.458	1.00	29.56	7
		ATOM	1091	CA	HIS	В	405	-25.306	71.387	35.405	1.00	31.69	6
		ATOM	1092	CB	HIS	В	405	-26.245	72.324	36.173	1.00	33.75	. 6
Ð	25	ATOM	1093	CG	HIS	В	405	-25.536	73.185	37.163	1.00	34.75	6
ľŲ		ATOM	1094	CD2	HIS	В	405	-24.234	73.286	37.524		34.58	6
(1)		ATOM	1095	ND1	HIS	В	405	-26.223	74.101	37.969	1.00	32.43	7
		MOTA	1096	CE1	HIS	В	405	-25.334	74.703.	38.769	1.00	36.15	6
1		ATOM	1097	NE2	HIS	В	405	-24.139	74.222	38.511	1.00	39.84	7
lap.	30	ATOM	1098	С	HIS	В	405	-26.106	70.342	34.648	1.00	34.21	6
V.		ATOM	1099	0	HIS	В	405	-26.087	69.160	35.006	1.00	37.06	8
āi : ma		ATOM	1100	N	TYR	В	406	-26.806	70.776	33.598	1.00	30.83	7
		ATOM	1101	CA	TYR	В	406	-27.592	69.853	32.796	1.00	28.85	6
لنا		ATOM	1102	CB	TYR	В	406	-28.192	70.537	31.579	1.00	31.48	6
Щ	35	ATOM	1103	CG	TYR	В	406	-28.991	69.576	30.730	1.00	23.49	6
		ATOM	1104	CD1	TYR	В	406	-30.179	69.047	31.196	1.00	19.42	6
Ü		MOTA	1105	CE1	TYR	В	406	-30.893	68.128	30.441	1.00	23.80	6
† č aci		MOTA	1106	CD2	TYR	В	406	-28.525	69.152	29.496	1.00	21.81	6
		MOTA	1107	CE2	TYR	В	406	-29.241	68.228	28.740	1.00	24.64	6
	40	MOTA	1108	CZ	TYR	В	406	-30.420	67.713	29.217	1.00	21.56	6
		ATOM	1109	ОН	TYR	В	406	-31.120	66.802	28.480	1.00	24.96	8
		ATOM	1110	С	TYR	В	406	-26.697	68.725	32.304	1.00	24.24	6
		MOTA	1111	0	TYR	В	406	-27.155	67.609	32.110	1.00	27.08	8
		MOTA	1112	N	ILE	В	407	-25.422	69.056	32.084	1.00	25.76	7
	45	ATOM	1113	CA	ILE	В	407	-24.428	68.092	31.628	1.00	33.75	6
		ATOM	1114	CB	ILE	В	407	-23.090	68.778	31.274	1.00	34.23	6
		ATOM	1115	CG2	ILE	В	407	-21.959	67.774	31.230	1.00	32.46	6
		ATOM	1116	CG1	ILE	В	407	-23.214	69.514	29.936	1.00	43.30	6
		ATOM	1117	CD1	ILE	В	407	-23.655	68.612	28.804	1.00	40.40	6
	50	ATOM	1118	С	ILE	В	407	-24.191	67.004	32.658	1.00	39.03	6
		ATOM	1119	0	ILE	В	407	-24.178	65.806	32.343	1.00	35.18	8
		ATOM	1120	N	ASN	В	408	-23.990	67.425	33.894	1.00	37.25	7
		ATOM	1121	CA	ASN	В	408	-23.739	66.475	34.943	1.00	37.01	6
		ATOM	1122	CB	ASN	В	408	-23.524	67.221	36.256	1.00	32.27	6
	55	ATOM	1123	CG	ASN	В	408	-22.296	68.137	36.202		33.56	6
		ATOM	1124	OD1	ASN	В	408	-21.194	67.696	35,823	1.00	31.99 [.]	8
		ATOM	1125	ND2	ASN	В	408	-22.478	69.397	36.604	1.00	31.23	7
		ATOM	1126	С	ASN	В	408	-24.876	65.453	35.036	1.00	38.14	6



	5	ATOM	1127	0	ASN	В	408	-24.624	64.253	35.105		42.16	8
		atom	1128	N	TYR	В	409	-26.122	65.924	35.003		35.62	7
		ATOM	1129	CA	TYR	В	409	-27.273	65.024	35.073		35.91	б
		ATOM	1130	CB	TYR	В	409	-28.597	65.787	34.931	1.00	34.41	6
		ATOM	1131	CG	TYR	В	409	-29.788	64.868	34.685	1.00	38.73	6
	10	ATOM	1132	CD1	TYR	В	409	-30.064	63.819	35.549	1,00	41.34	6
		ATOM	1133	CE1	TYR	В	409	-31.130	62.962	35.309	1.00	47.16	б
		ATOM	1134	CD2	TYR	В	409	-30.613	65.037	33.579	1.00	46.20	6
		ATOM	1135	CE2	TYR	В	409	-31.684	64.176	33.341	1.00	50.74	6
		ATOM	1136	CZ	TYR		409	-31.942	63.143	34.206	1.00	50.88	6
	15	ATOM	1137	ОН	TYR		409	-33.002	62.312	33.978		53.14	8
		ATOM	1138	C	TYR			-27.215	64.020	33.951		38.16	6
		ATOM	1139	Ō	TYR		409	-27.558	62.857	34.111		41.83	8
		ATOM	1140	N	ARG		410	-26.824	64.528	32.796		42.25	7
		ATOM	1141	CA	ARG		410	-26.734	63.739	31.594		42.83	6
	20	ATOM	1142	CB	ARG		410	-26.350	64.646	30.441		36.83	6
	20	ATOM	1143		ARG		410	-27.440	65,585	29.945		34.32	6
		ATOM	1143	CD	ARG			-28.284	64.863	28.917		36.62	6
					ARG		410	-27.455	64.378	27.829		38.64	7
.		ATOM	1145	NE						26.824		35.73	6
ļ	25	ATOM	1146	CZ	ARG		410	-27.926	63.656				7
} . 1	25	ATOM	1147		ARG			-29.234	63.379	26.782		33.17	
		ATOM	1148		ARG			-27.095	63.227	25.868		32.70	7
j L		ATOM	1149	C	ARG			-25.688	62.664	31.733		46.67	6
i		MOTA	1150	0	ARG		410	-25.859	61.547	31.257		41.78	8
L		ATOM	1151	N	LYS		411	-24.602	63.028	32.413		52.99	7
1	30	MOTA	1152	CA	LYS		411	-23.471	62.145	32.609		58.32	6
đ		ATOM	1153	CB	LYS		411	-23.684	61.249	33.833		64,99	6
5		MOTA	1154	CG	LYS		411	-24.998	60.544	33.968		70.48	6
j		ATOM	1155	CD	LYS		411	-25.070	59.887	35.349		77.18	6
, !		ATOM	1156	CE	LYS		411	-26.272	58.944	35.474		84.30	6
r L	35	ATOM	1157	NZ	LYS		411	-26.286	58.242	36.809		86.48	7
,		MOTA	1158	C	LYS		411	-23.172	61.341	31.365		56.66	6
•		MOTA	1159	0	LYS			-23.574	60.199	31.210		55.47	8
•		ATOM	1160	N	HIS			-22.458	62.026	30.479	1.00	54.67	7
		ATOM	1161	CA	HIS			-22.019	61.474	29.214		48.67	6
	40	ATOM	1162	CB	HIS	В	412	-21.500	62.599			43.14	6
		ATOM	1163	CG	HIS	В	412	-22.559	63.501	27.784		41.36	6
		ATOM	1164	CD2	HIS	В	412	-23.159	64.603	28.299		35.44	6
		ATOM	1165	ND1	HIS	В	412	-23.163	63.290	26.539	1.00	38.19	7
		ATOM	1166	CE1	HIS	В	412	-24.076	64.238	26.353	1.00	34.75	6
	45	ATOM	1167	NE2	HIS	В	412	-24.090	65.034	27.396	1.00	35.52	7
		ATOM	1168	C	HIS	В	412	-20.894	60.596	29.644	1.00	46.35	6
		MOTA	1169	0	HIS	В	412	-20.218	60.892	30.644	1.00	42.73	8
		ATOM	1170	N	HIS	В	413	-20.708	59.469	28.973	1.00	48.92	7
		ATOM	1171	CA	HIS			-19.593	58.614	29,371	1.00	53.15	6
	50	ATOM	1172	СВ	HIS			-20.022	57.147	29.421		55.27	6
		ATOM	1173	CG	HIS			-20.814	56.823	30.636		58.77	6
		ATOM	1174		HIS			-22.019	56.223	30.822		61.65	6
		ATOM	1175		HIS			-20.360	57.159	31,921		60.31	7
		ATOM	1176		HIS			-21.267	56.758	32.809		63.01	6
	55	ATOM	1177		HIS			-22.270	56.193	32.171		62.93	7
		ATOM	1178	C	HIS			-18.426	58.862	28.438		53.19	6
		ATOM	1179	ō	HIS			-17.975	57.996	27.699		54.93	8
		ATOM	1180	N	VAL			-17.970	60.113	28.521		53.77	7
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	5	ATOM	1181	CA	VAL	В	414	-16.845	60.674	27,788	1.00	51.06	6
		ATOM	1182	CB	VAL	B	414	-17.317	61,498	26.586	1.00	51.49	6
		ATOM	1183	CG1	VAL	В	414	-16.133	62.122	25.891	1.00	45,22	6
		ATOM	1184	CG2	VAL	В	414	-18.095	60.631	25.617	1.00	52.67	6
		ATOM	1185	С	VAL	B	414	-16.096	61.557	28.775	1.00	54.28	6
	10	ATOM	1186	0	VAL			-16.700	62.283	29.574	1.00	55.49	8
		ATOM	1187	N	THR	В	415	-14.770	61.466	28.742	1.00	56.28	7
		ATOM	1188	CA	THR			-13.919	62.234	29.669		57.83	6
		ATOM	1189	CB	THR			-12.488	61.686	29.658		59.64	6
		ATOM	1190	OG1	THR			-11.618	62.572	30.373		66.69	8
	15	ATOM	1191	CG2	THR			-11.988	61.483	28.227		59.42	6
		ATOM	1192	C	THR		-	-13.840	63.726	29,352		56.98	6
		ATOM	1193	ō	THR			-13,987.	64.135	28,216		55.70	8
		ATOM	1194	N	HIS			-13.598	64.522	30.387		57.44	7
		ATOM	1195	CA	HIS			-13.485	65.972	30.237		57.34	6
	20	ATOM	1196	CB	HIS			-12.114	66.326	29.653	-	61.35	6
		ATOM	1197	CG	HIS			-10.968	65.931	30.513		69.78	6
		ATOM	1198	CD2				-9.930	65.082	30.307		71.42	6
		ATOM	1199	ND1				-10.756	66.480	31.787		72.49	7
i mi		ATOM	1200	CEI	HIS			-9.631	65.973	32.281		75.50	6
٥	25	ATOM	1201	NE2	HIS			-9.120	65.131	31.408		73.91	7
Ü	23	ATOM	1202	C	HIS			-14.560	66.515	29.320		53.79	6
Ø		ATOM	1203	0	HIS			-14.334	67.477	28.591		52.81	8
_		ATOM	1203	N	PHE			-15.746	65.921	29.372		48.05	7
أسأ		ATOM	1205	CA	PHE			-16.841	66.329	28.505		47.99	6
1-2	30	ATOM	1205	CB	PHE			-18.152	65.694	28.937		46.11	6
`u.j	30	ATOM	1207	CG	PHE			-19.233	65.781	27.898		44.27	6
ii.		ATOM	1208	CD1	PHE			-19.280	64.856	26.870		41.79	6
		ATOM	1209	CD2	PHE			-20.118	66.846	27.893		40.23	6
لدا		ATOM	1210	CE1	PHE		417	-20.233	64.959	25.869		44.30	6
	35	ATOM	1211	CE2	PHE		417	-21.072	66.955	26.893		36.80	6
	33	ATOM	1212	CZ	PHE		417	-21.119	66.016	25.866		40.69	6
· 🗇		ATOM	1213	C	PHE		417	-17.020	67.833	28.423		46.69	6
Û		ATOM	1214	0	PHE			-16.799	68.423	27.380		43.35	8
		ATOM	1215	Ŋ	TRP			-17.448	68.452	29.516		45.14	7
	40	ATOM	1216	CA	TRP			-17.681	69.889	29.508		44.89	6
	70	ATOM	1217	CB	TRP			-18.045	70.398	30,898		42.24	6
		ATOM	1218	CG	TRP			-18.162	71.905	31.018		47.11	6
		ATOM	1219		TRP			-19.298	72.699	30.620		46.98	6
		ATOM	1220		TRP			-18.953	74.061	30.850		48.94	6
	45	ATOM	1221		TRP			-20.560	72.401	30.086		45.23	6
	10	ATOM	1222		TRP			-17.223	72.778	31.462		46.24	6
		ATOM	1223		TRP			-17.690	74.071	31.368		50.63	7
		ATOM	1224		TRP			-19.819	75.109	30.571		45.46	6
		ATOM	1225		TRP			-21.422	73.447	29.809		44.50	6
	50	ATOM	1226		TRP			-21.065	74.777	30.039		47.55	. 6
	30	ATOM	1227	C	TRP			-16.502	70.662	28.956		43.88	6
		ATOM	1228	0	TRP			-16.671	71.424	27.986		43.17	8
		ATOM	1229	N	PRO			-15.292	70.490	29.519		43.17	7
		ATOM	1230	CD	PRO			-14.967	69.551	30.599		41.52	6
	55	ATOM	1230	CA	PRO			-14.120	71.223	29.011		41.32	6
		ATOM	1231	CB	PRO			-12.956	70.582	29.011		39.21	6
		ATOM	1232	CG	PRO			-13.521	69.703	30.774		39.21	6
		ATOM	1233	C	PRO			-14.035	71.067	27.479		36.28	6
			1634	_	FRU	נו	413	-14,033	,1.00,	21.473	1.00	30.20	9

	5	MOTA	1235	0	PRO	В	419	-13.690	72.001	26.754	1.00	37.08	8
		ATOM	1236	N	LYS	В	420	-14.330	69.871	26.976	1.00	35.96	7
		ATOM	1237	CA	LYS	В	420	-14.278	69.609	25.538	1,00	40.82	6
		ATOM	1238	CB	LYS	В	420	-14.452	68.103	25.271	1.00	40.78	6
		ATOM	1239	CG	LYS		420	-13.349	67.214	25.830	1.00	48.62	6
	10	ATOM	1240	CD	LYS		420	-13.565	65.746	25.480	1.00	55.12	6
		ATOM	1241	CE	LYS	-		-12.427	64.892	26.017		53.26	6
		ATOM	1242	NZ	LYS		420	-12.582	63.457	25.608		52.69	7
		MOTA	1243	C	LYS			-15.414	70.374	24.875		40.29	6
		ATOM	1244	ō	LYS			-15.225	71.015	23.851		39.66	8
	15	ATOM	1245	N	LEU			-16.591	70.300	25.499		38.33	7
		ATOM	1246	CA	LEU		421	-17.796	70.958	25.001		37.60	6
		ATOM	1247	СВ	LEU		421	-18.970	70.702	25.965		43.66	6
		ATOM	1248	CG	LEU			-20.370	70.850	25.418		46.50	6
		ATOM	1249	CD1				-20.529	69.890	24.255		45.15	6
	20	MOTA	1250		LEU		421	-21.383	70.538	26.486		51.31	6
	20	ATOM	1251	C	LEU			-17.547	72.452	24.823		39.59	6
		ATOM	1252	0	LEU			-17.975	73.035	23.836	1.00	40.66	8
		ATOM	1253	N	LEU		422	-16.847	73.059	25.780		39.57	7
		ATOM	1253		LEU		422	-16.534	74.478	25.705		38.63	6
Ö	25	ATOM	1255	CA CB	LEU		422	-15.829	74.936	26.992		41.79	6
ĬŨ	25	ATOM	1256	CG	LEU			-16.714	75.149	28.191		42.74	6
Ď		ATOM	1257	CD1				-15.911	75.685	29.360		42.89	6
			1258		LEU			-17.783	76.162	27.813		39.27	6
1,2		ATOM	1250	CDZ	LEU			-15.677	74.788	24.513		40.47	6
<u> </u>	30	ATOM	1260	0	LEU			-15.823	75.846	23.917		47.83	8
1	30	ATOM			MET			-13.823 -14.789	73.853	24.168		34.27	7
8;		ATOM	1261	N	MET			-13.907	74.019	23.024		35.25	6
		ATOM	1262	CA			423		74.019	22.922		32.56	6
لنا		ATOM	1263	CB	MET			-12.920		24.125		40.70	6
	25	ATOM	1264	CG	MET		423	-12.013	72.703	24.125		47.65	16
	35	ATOM	1265	SD	MET		423	-10.345	72.007			47.05	6
ŧΩ		ATOM	1266	CE	MET		423	-10.770	70.538	22,761 21,738		35.13	6
ı 🗍		ATOM	1267	C	MET		423	-14.709	74.100 74.807			29.85	8
		ATOM	1268	0			423	-14.341		20.803		31.56	7
	40	ATOM	1269	N	LYS		424	-15.811	73.361	21.704		32.29	6
	40	ATOM	1270	CA	LYS			-16.676	73.354	20.544			
		ATOM	1271	CB	LYS			-17.783	72.316	20.736		30.56	6
		ATOM	1272	CG	LYS			-17.257	70.879	20.843		30.07	6
		ATOM	1273	CD	LYS			-16.444	70.510	19.611		33.22	6
	45	ATOM	1274	CE	LYS			-15.795	69.136	19.706		28.75	6
	45	ATOM	1275	NZ	LYS			-14.655	69.067	20.678		31.01	7
		ATOM	1276	С	LYS			-17.248	74.754	20.304		29.26	6
		ATOM	1277	0	LYS			-17.439	75.149	19.166		30.22	8
		ATOM	1278	N	VAL			-17.495	75.499	21.385		23.53	7
	CO	ATOM	1279	CA	VAL			-18.014	76.852	21.278		28.91	6
	50	ATOM	1280	CB	VAL			-18.278	77.458	22.663		29.44	6
		ATOM	1281		VAL			-18.633	78.915	22.547		28.81	6
		ATOM	1282		VAL			-19.401	76.733	23.354		31.22	6
		ATOM	1283	C	VAL			-17.001	77.682	20.498		32.03	6
	c.c	ATOM	1284	0	VAL			-17.368	78.465	19.629		31.95	8
	55	ATOM	1285	N	THR			-15.721	77.508	20.827		33.61	7
		ATOM	1286	CA	THR			-14.645	78.221	20.137		30.76	6
		ATOM	1287	CB	THR			-13.270	77.912	20.761		32.34	6
		ATOM	1288	OG1	THR	В	426	-13.073	78.697	21.941	1.00	33.07	8

	5	MOTA	1289	CG2	THR	В	426	-12.153	78.174	19.782	1.00	25.40	6
		ATOM	1290	С	THR	В	426	-14.677	77,742	18.706	1.00	32.53	6
		MOTA	1291	0	THR	В	426	-14.639	78.530	17.763	1.00	35.19	8
		MOTA	1292	N	ASP	В	427	-14.749	76.425	18.566	1.00	28.83	7
		MOTA	1293	CA	ASP	В	427	-14.796	75.807	17.257	1.00	35.12	б
	10	MOTA	1294	CB	ASP	В	427	-15.096	74.302	17.380	1.00	39.14	6
		MOTA	1295	CG	ASP	B	427	-13.910	73.496	17.806	1.00	45.80	6
		ATOM	1296	OD1	ASP	В	427	-12.786	73.774	17.348	1.00	41.97	8
		MOTA	1297	OD2	ASP	В	427	-14.064	72.517	18.583	1.00	50.06	8
		ATOM	1298	С	ASP	В	427	-15.883	76.502	16.429	1.00	33.94	б
	15	MOTA	1299	0	ASP	В	427	-15.673	76.815	15.262	1.00	38.02	8
		MOTA	1300	N	ĻEU	В	428	-17.040	76.741	17.048	1.00	27.15	7
		MOTA	1301	CA	LEU	В	428	-18.154	77.388	16.367	1.00	29.99	· 6
		ATOM	1302	CB	LEU	В	428	-19.448	77.190	17.168	1.00	22.49	6
		MOTA	1303	CG	LEU	В	428	-20.086	75.818	17.089	1.00	25.54	6
	20	MOTA	1304	CD1	LEU	В	428	-21.282	75.729	18.012	1.00	20.60	6
		MOTA	1305	CD2	LEU	В	428	-20.509	75.564	15.651	1.00	17.24	6
		MOTA	1306	С	LEU	В	428	-17.901	78.863	16.103	1.00	28.94	6
		ATOM	1307	0	LEU	В	428	-18.328	79.388	15.076		31.26	8
		MOTA	1308	N	ARG		429	-17.213	79.524	17.035		27.64	7
ı	25	MOTA	1309	CA	ARG	В	429	-16.894	80.937	16.883	1.00	28.13	6
ľ		MOTA	1310	CB	ARG		429	-16.274	81.507	18.160		29.59	6
Ü		MOTA	1311	CG	ARG		429	-17.246	81.752	19.302		34.85	6
=		MOTA	1312	CD	ARG		429	-16.626	82.653	20.372		47.18	6
1		ATOM	1313	NE	ARG			-17.373	82.714	21.620		57.93	7
إط ايرا	30	MOTA	1314	CZ	ARG			-18.632	83.124	21.716	1.00	63.62	6
		MOTA	1315	NH1	ARG			-19.263	83.579	20.622		60.71	7
		MOTA	1316		ARG			-19.238	83.130	22.916		62.38	7
لرا		MOTA	1317	С	ARG			-15.930	81.146	15.728		29.81	6
		MOTA	1318	0	ARG			-16.101	82.061	14.933		30.81	8
	35	MOTA	1319	N			430	-14.908	80.295	15.670		29.64	7
		ATOM	1320	CA			430	-13.920	80.343	14.614		34.72	6
٠Ď		ATOM	1321	CB			430	-12.939	79.192	14.763		34.97	6
		ATOM	1322	CG	MET		430	-11.787	79.431	15.689		45.34	6
	40	ATOM	1323	SD			430	-10.729	80.768	15.158		52.55	16
	40	ATOM	1324	CE	MET		430	-10.070	80.157	13.610		55.56	6
		ATOM	1325	C	MET			-14.638	80.217	13.284		34.01	6
		ATOM	1326	0	MET			-14.395	80.996	12,385		37.29	8
		ATOM	1327	N	ILE			-15.516	79.217	13.176		29.99	7
	45	ATOM ATOM	1328	CA	ILE			-16.296	78.992	11.963		28.82	6
	43		1329	CB	ILE			-17.391 -18.314	77.929 77.841	12.177 10.959		27.39 23.87	6
		ATOM	1330										6
		ATOM	1331	CG1				-16.784 -17.826	76.555 75.464	12.449		25.56 17.29	6
		MOTA MOTA	1332 1333	C	ILE			-16.953	80.288	12.498 11.538		29.49	6 6
	50	ATOM	1334	0	ILE			-16.933	80.725	10.398		24.19	8
		MOTA	1335	N	GLY			-17.657	80.723	12.474		25.25	7
		ATOM	1336	CA	GLY			-18.357	82.142	12.179		30.38	
		ATOM	1337	C	GLY			-17.395	83.209	11.725		32.75	6
		ATOM	1338	0	GLY			-17.531	83.740	10.637		36.38	8
	55.	ATOM	1339	Ŋ	ALA			-16.431	83.522	12.586		26.77	7
	J.J.	ATOM	1340	CA	ALA			-15.407	84.514	12.299		26.48	6
		ATOM	1341	CB	ALA			-14.240	84.338	13.253		19.90	6
		ATOM	1342	C	ALA			-14.905	84.433	10.867	-	30.73	6
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	5	ATOM	1343	0	ALA	В	433	-14.849	85.432	10.171	1.00	31.60	8
		ATOM	1344	N	CYS	В	434	-14.534	83.246	10.439	1.00	33.22	7
		ATOM	1345	CA	CYS	В	434	-14.023	83.021	9.120	1.00	34.34	.6
		ATOM	1346	СВ			434	-13.553	81.661	9.226		35.20	6
		ATOM	1347	SG			434	-12.412	81.249	8.444		54.48	16
	10								83.116				
	10	ATOM	1348	C			434	-15.106		8.062		34.09	6
		MOŢA	1349	0			434	-14.844	83.555	6.952		34.89	8
		MOTA	1350	N			435	-16.318	82.699	8.394	1.00	34.30	7
		ATOM	1351	ÇA	HIS	В	435	-17.395	82.762	7,443	1.00	35.44	6
		ATOM	1352	CB	HIS	В	435	-18.700	82.404	8.103	1.00	31.76	6
	15	ATOM	1353	CG	HIS	В	435	-19.845	82.425	7.149	1.00	32.03	б
		ATOM	1354	CD2	HIS	В	435	-20.483	81.419	6.515		28.61	6
	•	ATOM	1355		HIS			-20.345	83.600	6.607	1.00		7
		ATOM	1356		HIS			-21.241	83.293	5.672		33.27	6
			1357		HIS								
	20	ATOM						-21.341	81.977	5.605		31.57	7
	20	MOTA	1358	C			435	-17.528	84.152	6.878		32.74	6
		MOTA	1359	0			435	-17.842	84.326	5.715		32.87	8
		ATOM	1360	N	ALA	В	436	-17.315	85.121	7.758	1.00	31.01	7
		ATOM	1361	CA	ALA	В	436	-17.376	86.520	7.405	1.00	29.91	6
		MOTA	1362	CB	ALA	В	436	-17.008	87.352	8.618	1.00	21.23	6
ď	25	ATOM	1363	С	ALA	B	436	-16.393	86.782	6.266	1.00	33.86	6
IU		MOTA	1364	0	ALA	В	436	-16.734	87.398	5.257	1.00	36.10	8
ĮĎ		ATOM	1365	N			437	-15.162	86.307	6.448		35.19	7
i.±		ATOM	1366	CA			437	-14.122	86.484	5.445		33.03	6
· • •		ATOM	1367	CB			437	-12.882	85.688	5.847		35.31	6
jæ	30	ATOM	1368	OG			437	-11.855	85.824	4.879		44.99	8
1	30	ATOM	1369	C			437	-14.642	85.993	4.108			6
ēl .												38.39	
		ATOM	1370	0			437	-14.700	86.730	3.127		37.54	8
لبا		ATOM	1371	N			438	-15.008	84.719	4.096		37.32	7
		ATOM	1372	CA	ARG		438	-15.526	84.068	2.908		39.30	6
ليا ت	35	ATOM	1373	СВ	ARG		438	-16.019	82.660	3.259		42.97	6
ű		MOTA	1374	CG	ARG		438	-14.910	81.673	3.590		41.72	6
Ď		MOTA	1375	CD	ARG	В	438	-14.044	81.488	2.356	1.00	45.23	6
* Bad		ATOM	1376	NE	ARG	В	438	-14.781	80.936	1.235	1.00	45.66	7
		ATOM	1377	CZ	ARG	В	438	-14.482	81.175	-0.040	1.00	49.71	6
	40	MOTA	1378	NH1	ARG	В	438	-13.458	81.977	-0.347	1.00	50.91	7
		ATOM	1379	NH2	ARG	В	438	-15.219	80.619	-1.002	1.00	46.86	7
		ATOM	1380	С	ARG			-16.659	84.859	2.287		42.37	6
		ATOM	1381	Ō	ARG			-16.841	84.832	1.072		40.58	8
		ATOM	1382	N	PHE			-17.417	85.575	3.117		42.25	7
	45	ATOM	1383	CA	PHE			-18.531	86.354	2.614		42.81	6
	43				PHE								
		ATOM	1384	СВ				-19.198	87.132	3.731		42.18	6 .
		ATOM	1385	CG	PHE			-20.487	87.769	3.323		42.48	6
		ATOM	1386		PHE			-21.535	86.981	2.912		47.09	6
		ATOM	1387		PHE			-20.638	89.141	3.334		39.76	6
	50	MOTA	1388		PHE			-22.735	87.543	2.527	1.00	49.17	6
		ATOM	1389	CE2	PHE	В	439	-21.851	89.717	2.944	1.00	45.10	6
		ATOM	1390	CZ	PHE	В	439	-22.901	88.911	2.538	1.00	46.36	6
		ATOM	1391	С	PHE	В	439	-18.016	87.319	1.581	1.00	44.79	6
		ATOM	1392	0	PHE			-18.514	87.354	0.465		40.26	8
	55	ATOM	1393	N	LEU			-17.021	88.117	1.987		42.77	7
		ATOM	1394	CA	LEU			-16.415	89.115	1.109		42.96	6
		ATOM	1395	СВ	LEU			-15.169	89.718	1.768		37.19	6
		ATOM	1396		LEU			-15.477	90.588	2.967		36.97	6
		011	- J J U .			~		10.4//	50.500	2.507	1.00	30.31	-

								•						
	5	MOTA	1397	CD1	LEU	В	440		-14.219	91.352	3.402	1.00	33.65	6
		ATOM	1398	CD2	LEU	В	440		-16.577	91.591	2.574	1.00	35.42	б
		MOTA	1399	С	LEU	В	440		-16.099	88.561	-0.273	1.00	45.47	6
		MOTA	1400	0	LEU	В	440		-16.631	89.059	-1.265	1.00	52.48	8
		MOTA	1401	N	HIS	В	441		-15.238	87.549	-0.345	1.00	49.15	7
	10	ATOM	1402	CA	HIS	В	441		-14.929	86.956	-1.632	1.00	54.76	6
		ATOM	1403	CB	HIS	В	441		-14.150	85.700	-1.448	1.00	56.68	6
		ATOM	1404	CG	HIS	В	441		-12.713	85.934	-1.230	1.00	62.73	6
		ATOM	1405	CD2	HIS	В	441		-11.602	85.418	-1.812	1.00	65.73	6
		ATOM	1406	ND1	HIS	В	441		-12.245	86.850	-0.273	1.00	66.01	7
	15	ATOM	1407		HIS				-10.916	86.847	-0.309		65.55	6
		ATOM	1408		HIS				-10.512	85.993	-1.228	1.00	60.09	7
		ATOM	1409	С	HIS				-16.217	86.633	-2.301		55.93	6
		ATOM	1410	0	HIS				-16.418	86.938	-3.465		57.33	8
		ATOM	1411	N	MET				-17.106	85.997	-1.553		57.81	7
	20	ATOM	1412	CA	MET		442		-18.399	85.652	-2.106		59.11	6
		ATOM	1413	CB	MET		442		-19.340	85.162	-1.008		55.93	6
		ATOM	1414	CG	MET				-18.991	83.796	-0.456		58.52	6
		ATOM	1415	SD	MET				-20.310	82.994	0.505		60.99	16
		ATOM	1416	CE	MET				-20.525	84.203	1.827		52.61	6
ij	25	ATOM	1417	C	MET				-18.991	86.879	-2.785		60.31	6
บ		ATOM	1418	0	MET				-19.646	86.778	-3.817		58.18	8
Ü		ATOM	1419	N	LYS				-18.731	88.045	-2.213		61.45	7
j.à		ATOM	1420	CA	LYS				-19.267	89.268	-2.758		64.90	6
أيريا		ATOM	1421	CB	LYS				-19.182	90.358	-1.704		64.40	6
1	30	ATOM	1422	CG	LYS				-20.160	91.449			69.12	6
إيما	30	ATOM	1423	CD	LYS				-19.763	92.673	-1.306		71.14	6
2:		ATOM	1424	CE	LYS				-20.508	92.993	-0.491		73.43	6
		ATOM	1425	NZ	LYS		443		-20.174	94.242	0.151		67.97	7
W		ATOM	1426	C	LYS		443		-18.528	89.704	-4.020		67.29	6
	35	ATOM	1427	0	LYS		443		-18.979	90.586	-4.731		67.90	8
	-	ATOM	1428	N	VAL		444		-17.383	89.075	-4.285		66.57	7
Ď		ATOM	1429	CA	VAL		444		-16.589	89.418	-5.455		64.76	6
ŧΩ		ATOM	1430	CB	VAL		444		-15.097	89.568	-5.082		62.76	6
		ATOM	1431		VAL				-14.269	89.857	-6.298		64.00	6
	40	ATOM	1432		VAL				-14.905	90.678	-4.042		59.27	6
		ATOM	1433	C	VAL	_			-16.800	88.397	-6.569		68.61	6
		ATOM	1434	Ö	VAL				-16.968	88.774	-7.729		70.60	. 8
		ATOM	1435	N	GLU				-16.812	87.118	-6.219		70.71	7
		ATOM	1436	CA	GLU				-16.951	86.033	-7.197		71.45	6
	45	ATOM	1437	СВ	GLU				-16.169	84.809	-6.712		72.36	6
		ATOM	1438	CG	GLU				-14.736	85.090	-6.392		40.00	6
		ATOM	1439	CD	GLU				-13.998	83.890	-5.851		40.00	6
		ATOM	1440		GLU				-14.587	82.798	-5.665		40.00	8
		ATOM	1441		GLU				-12.775	83.995	-5.580		40.00	8
	50	ATOM	1442	C	GLU				-18.375	85.574	-7.422		71.46	6
	50	ATOM	1443	0	GLU				-18.605	84.542	-8.064		73.02	8
		ATOM	1444	N	CYS				-19.328	86.333	-6.900		71.12	7
		ATOM	1445	CA	CYS				-20.694	85.942	-7.062		70.83	6
		ATOM	1445	CB	CYS				-20.894	85.230	-5.784		70.83	6
	55	ATOM	1447	SG	CYS				-21.196	83.720	-5.349		72.83	16
	J J	ATOM	1448	C	CYS				-20.296	87.135	-7.386		71.91	6
		ATOM	1449	0	CYS				-21.303	88.244	-6.911		72.06	8
		ATOM	1450	N	PRO				-22.550	86.928	-8.256		73.12	7
		-31 OF	1430	14	ERO	J	37/		22.330	55.526	-0.236	1.00	, 5 . 12	•

	5	ATOM	1451	CD	PRO E	447	-22.837	85.637	-8.886	1.00	72.88	6
		ATOM	1452	CA	PRO E	447	-23.461	87.997	-8.653	1.00	74.22	6
		ATOM	1453	CB	PRO E			87.338	-9.659	1.00	72.98	6
		MOTA	1454	CG	PRO E			85.934	-9.776	•	74.77	6
		MOTA	1455	C	PRO E			88.519	-7.451		75.94	6
	10	ATOM	1456		PRO E			87.749	-6.611		76.67	8
	10			0								7
		ATOM	1457	N	THR E			89.828	-7.373	•	76.91	
		ATOM	1458	CA	THR E			90.436	-6.268		78.24	6
		MOTA	1459	CB	THR E			91.948	-6.276		81.33	6
		ATOM	1460	OG1	THR E		·	92.525	-7.451		84.46	8
	15	ATOM	1461	CG2	THR E	448	-23.394	92.234	-6.269	1.00	83.51	6
	•	MOTA	1462	С	THR E	448	-26.594	90.160	-6.619	1.00	77.42	6
		ATOM	1463	0	THR E	448	-27.512	90.649	-5.982	1.00	77.65	8
		ATOM	1464	N	GLU E	449	-26.759	89.400	-7.697	1.00	76.29	7
		ATOM	1465	CA	GLU E	449	-28.051	89.017	-8.211	1.00	75.03	б
	20	ATOM	1466	СВ	GLU E			88.915	-9.719		74.62	6
		ATOM	1467	CG	GLU E				-10.343	-	40.00	6
		ATOM	1468	CD	GLU E				-11.756		40.00	6
		ATOM	1469	OE1	GLU E	-			-12.190		40.00	8
100									-12.190		40.00	
	25	ATOM	1470	OE2	GLU E							8
ים ויו	25	ATOM	1471	C	GLU E			87.660	-7.609		73.49	6
12		ATOM	1472	0	GLU E			87.092	-7.953		70.24	8
i.i.d		ATOM	1473	Ņ	LEU E			87.158	-6.695		70.80	7
		MOTA	1474	CA	LEU E	450	-27.879	85.879	-6.058	1.00	68.82	6
`[MOTA	1475	CB	LEU E	450	-26.772	84.887	-6.447	1.00	71.91	6
\	30	ATOM	1476	CG	LEU E	450	-26.612	84.503	-7.900	1.00	76.62	6
		ATOM	1477	CD1	LEU F	450	-25.396	83,637	-8.059	1.00	77.95	6
il Little		MOTA	1478	CD2	LEU E	450	-27.849	83.775	-8.351	1.00	76.46	6
		ATOM	1479	С	LEU E			86.012	-4.536	1.00	66.22	6
Į,		ATOM	1480	0	LEU E			85.039	-3.849		66.01	8
	35	ATOM	1481	N	PHE E			87.215	-4.012		61.96	7
	-	MOTA	1482	CA	PHE E		-27.635	87.494	-2.585		58.44	6
ıΩ		ATOM	1483	CB		451	-26.579	88.573	-2.263		61.34	6
ıŪ		ATOM	1484	CG		451	-25.153	88.078	-2.413		63.02	6
				**							62.92	6
	40	ATOM	1485	CD1	PHE E		-24.675	87.587	-3.626			
	40	ATOM	1486	CD2	PHE E		-24.283	88.173	-1.346		63.07	6
		MOTA	1487		PHE E		-23.327	87.217	-3.757		65.12	6
		ATOM	1488	CE2	PHE E		-22.939	87.806	-1.472		64.66	6
		ATOM	1489	CZ	PHE E		-22.459	87.335	-2.686		67.12	6
		ATOM	1490	С	PHE E	451	-28.931	87.994	-1.962		56.41	6
	45	ATOM	1491	0	PHE E	451	-29.207	89.214	-1.908	1.00	56.56	8
		ATOM	1492	N	PRO E	452	-29.791	87.072	-1.473	1.00	53.28	7
		ATOM	1493	CD	PRO E	452	-29.767	85.611	-1.494	1.00	50.46	6
		MOTA	1494	CA	PRO E		-31.037	87.598	-0.843	1.00	50.26	6
		ATOM	1495	СВ	PRO E		-31.746	86.375	-0.301		49.19	6
	50	ATOM	1496	CG	PRO E		-31.024	85.197	-0.842		45.89	6
	J U	ATOM	1497	c	PRO E		-30.636	88.567	0.251		49.62	6
			1498	0	PRO E		-29.628	88.401	0.906		52.35	8
		ATOM										
		ATOM	1499	N	PRO E		-31.494	89.539	0.535		51.50	7
	5 6	ATOM	1500	CD	PRO E		-32.853	89.644	0.022		49.66	6
	55	ATOM	1501	CA	PRO B		-31.184	90.573	1.530		50.89	6
		MOŢA	1502	CB	PRO E		-32.422	91.401	1.625		51.49	6
		ATOM	1503	CG	PRO B		-33.378	90.827	0.724		50.82	6
		ATOM	1504	С	PRO B	453	-30.829	90.039	2.906	1.00	50.99	6

	5	ATOM	1505	0	PRO	В	453	-29.700	90.206	3.345	1.00	54.17	8
		ATOM	1506	N	LEU	В	454	-31.807	89.458	3.631	1.60	51.21	7
		ATOM	1507	CA	LEU		454	-31.538	88.945	4.948	-	47,17	6
		ATOM	1508	СВ	LEU		454	-32.550	87.858	5.330		44.44	6
		ATOM	1509	ÇG	LEU		454	-32.347	87.412	6.748		41.33	6
	10	ATOM	1510	CD1				-31.987	88.589	7.631		35.93	6
	. •	ATOM	1511	CD2	LEU			-33.590	86.732	7.239		34.79	6
		ATOM	1512	C	LEU			-30.099	88.443	4.928		42.25	6
		ATOM	1513	0	LEU			~29.323	88.774	5.812		40.82	8
		ATOM	1514	N	PHE		455	-29.716	87.707	3.885		39.29	7
	15		1515			В	455	-28.347	87.204	3.770		41.81	6
	13	ATOM	1516	CA	PHE		455	-28.132	86.536	2.418		47.22	6
		ATOM	1517	CB CG	PHE		455	-26.813	85.836	2.292		56.97	6
		ATOM	1517	CD1	PHE		455	-26.437	84.915	3.247		57.23	6
		ATOM											6
	20	ATOM	1519	CD2 CE1	PHE		455	-25.949 1		1.236		59.40	6
	20	ATOM	1520		PHE		455	-25.225	84.234	3.153		56.58 61.80	6
		ATOM	1521	CE2			455	-24.720	85.409 84.481	1.134 2.103	-		6
		ATOM	1522	CZ			455	-24.360	•			59,94	6
. ===		ATOM	1523	e			455	-27.400	88.386	3.923		45.12	
	26	ATOM	1524	0			455	-26.657	88.450	4.889		39.95	8 7
Û	25	MOTA	1525	N			456	-27.439	89.303	2.949		43.92	
IJ		ATOM	1526	CA			456	-26.597	90.503	2.947		44.08	6
		ATOM	1527	CB			456	-27.001	91.440	1.802	1.00		6
,— '_i		ATOM	1528	CG			456	-26.439	91.155	0.432		55.79	6
±	20	ATOM	1529		LEU			-27.064	92.082			54.70	6
	30	ATOM	1530		LEU		456	-24.920	91.345	0.494		53.01	6
21 21		ATOM	1531	e	LEU			-26.689	91.245	4.264		44.65	6
		ATOM	1532	0	LEU		456	-25.678	91.540	4.886		45.93	8
ليا		MOTA	1533	N	GLU		457	-27.990	91.268	4.265		44.56	7
لدا	26	ATOM	1534	CA	GLU		457	-28.288	92.016	5.497		46.37	6
	35	ATOM	1535	C	GLU		457	-27.434	91.452	6.628		43.60	6
Ü		MOTA	1536	0	GLU		457	-26.754	92.223	7.339		42.69	8
Ē		ATOM	1537	CB	GLU		457	-29.769	91.879	5.855		50.16	6
		ATOM	1538	CG	GLU		457	-30.208	92.849	6.954		20.00	6
	40	ATOM	1539	CD	GLU			-31.646	93.338	6.782		20.00	6
	40	ATOM	1540	OE1		_		-32.351		5.779		20.00	8
		ATOM	1541					-32.157		7.638		20.00	8
		ATOM	1542	N	VAL			-27.428	90.413	7.281		43.21	7
		ATOM	1543	CA	VAL			-26.706		8.351		44.98	6
	45	ATOM	1544	CB	VAL			-27.075	88.255	8.432		44.83	6
	45	ATOM	1545		VAL			-26.440	87.623	9.646		49.72	6
		ATOM	1546		VAL			-28.562	88.086	8.474		40.89	6
		ATOM	1547	С	VAL			-25.190	89.822	8.311		42.72	6
		MOTA	1548	0	VAL			-24.551	90.179	9.303		42.88	8
	60	ATOM	1549	N	PHE			-24.605	89.488	7.180		44.53	7
	50	ATOM	1550	CA	PHE			-23.165	89.480	7.077		48.18	6
		MOTA	1551	CB	PHE			-22.747	88.457	6.065		43.60	6
		ATOM	1552	CG	PHE			-23.167	87.116	6.441		40.79	6
		ATOM	1553		PHE			-24.494	86.750	6.368		41.01	6
	<i>c c</i>	ATOM	1554		PHE			-22.263	86.286	7.009		39.48	6
	55	ATOM	1555		PHE			-24.892	85.540	6.889		40.62	6
		ATOM	1556		PHE			-22.649	85.091	7.527		36.87	6
		ATOM	1557	CZ	PHE			-23.967	84.711	7,455		36.39	6
		ATOM	1558	С	PHE	В	459	-22.627	90.758	6.623	1.00	52.71	6

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	5	ATOM	1559	0	PHE	В	459	-21.414	91.050	6.791	1.00	51.34	8
		ATOM	1560	N	GLU	B	460	-23.489	91.531	5.976	1.00	62.92	7
		ATOM	1561	CA	GLU	В	460	-22.953	92.741	5.533	1.00	69.33	6
		ATOM	1562	CB	GLU			-23.851	93.487	4.505	1.00	72.95	6
		MOTA	1563	CG	GLU			-22.917	94.002	3.412		78.35	6
	10	ATOM	1564	CD	GLU			-22.908	95.480	3.256		82.97	6
	10	ATOM	1565	OE1				-23.257	96.213	4.217		88.28	8
		ATOM	1566	OE2				-22.524	95.977	2.167		84.80	8
				CEZ	GLU			-22.790	93.576	6.786		71.87	6
		ATOM	1567	-	GLU			-23.471	93.391	7.802		74.51	8
	1.5	ATOM	1568	0	•					6.696		78.50	7
	15	ATOM	1569	N	ASP			-21.796	94.449	7.701			
		ATOM	1570	CA	ASP			-21.401	95.328			84.19	6
		ATOM	1571	CB	ASP			-20.182	96.032	7.125		85.82	6
		ATOM	1572	CG	ASP			-19.261	95.066	6.463		89.62	6
		ATOM	1573		ASP			-19.670	93.929	5.982		93.00	8
	20	ATOM	1574		ASP			-18.084	95.361	6.387		93.04	8
		ATOM	1575	¢	ASP			-22.540	96.291	8.012		86.80	6
		MOTA	1576	0	ASP			-23.063	96.176	9.139		88.70	8
		ATOM	1577	OXT	ASP	В	461	-22.962	97.048	7.098	1.00	88.70	8
)		TER											
j	25	MOTA	4002	Cl	тЗ	J	1	20.152	36.643	29.561		22.34	6
į		MOTA	4003	C2	T3	J	1	19.021	41.567	29.283	1.00	21.84	6
į		MOTA	4004	C3	т3	J	1	18.880	37.086	29.226	1.00	23.43	6
•		ATOM	4005	C4	TЗ	J	1	18.249	42.606	28.776	1.00	22.31	6
į		ATOM	4006	C5	т3	J	1	18.747	38.372	28.866	1.00	24.83	6
•	30	MOTA	4007	C6	т3	J	1	17.938	43.621	29.664	1.00	25.16	6
j		ATOM	4008	C7	TЗ	J	1	19.799	39.296	28.753	1.00	24.65	6
		ATOM	4009	C8	т3	J	1	18,330	43.594	31.028	1.00	21.93	6
!		MOTA	4010	C9	т3	J	1	21.101	38.940	29.075	1.00	25.09	6
! !		ATOM	4011	C10	т3	J	1	19.063	42.558	31.465	1.00	23.66	6
! :	35	ATOM	4012	C11	Т3	J	1	21.254	37.600	29.456	1.00	23.12	6
		ATOM	4013	C12		J	1	19.459	41.490	30.621	1.00	19.67	6
		ATOM	4014	C13		J	ĩ	20.370	35.228	30.075		18.97	6
l		ATOM	4015	C15		J	1	21.549	34.480	29.455		19.32	б
		ATOM	4016	C17		J		21.535	33.003	29.710		19.02	6
	40	ATOM	4017	I1	Т3	J	1	16.898	39.029	28.661		25.29	53
		ATOM	4018	12	Т3	J	1	17.058	45.327	29.154		26.49	53
		ATOM	4019	13	Т3	J	1	22.763	40.262	29.169		25.67	53
		ATOM	4020	N1	T3	J	1	21.800	34.859	28.024		15.12	7
		ATOM	4021	01	т3	J	1	17.934	44.682	31.806		21.79	8
	45	ATOM	4022	02	т3	J	1	19.432	40.560	28.362		22.05	8
	.5	ATOM	4023	03	T3	J	1	21.911	32.260	28.776		20.38	8
		ATOM	4024	04	T3	J	1	21.137	32.622	30.840		20.16	8
		TER	1024	04	13	•	_	21.137	52.022	30.040	1.00	20.10	v
		ATOM	4025	C1	т3	K	1	-28.131	75.928	7.543	1.00	22 34	6
	50			C1				-24.676	77.673		1.00		6
	30	ATOM	4026	C2	T3	K	1			4.318	1.00		6
		ATOM	4027	C3	T3	K	1	-28.490	76.351	6.201	1.00		6
		ATOM	4028	C4	T3	K	1	-24.217	77.893	2.989			
		ATOM	4029	C5 ·	T3	K	1	-27.485	76.499	5.233	1.00		6
	55	ATOM	4030	C6	T3	K	1	-23.545	79.124	2.700		25.16	6
	55	ATOM	4031	C7	T3	K	1	-26.132	76.227	5.581	1.00		6
		ATOM	4032	C8	T3	K	1	-23.382	80.104	3.772	1.00		6
		ATOM	4033	C9	T3	K	1	-25.685	75.833	6.855	1.00		6
		ATOM	4034	Ç10	Т3	K	1	-23.867	79.823	5.042	1.00	23.66	6

	5	ATOM	4035	C11		K		-26.708	75.670	7.834	1.00		6
		ATOM	4036	C12	T3	K	1	-24.521	78.610	5.376	1.00	19.67	6
		ATOM	4037	C13	T3	K	1	-29.211	75.830	8.626	1.00	18.97	6
		MOTA	4038	C15	TЗ	K	1	-29.181	74.567	9.488	1.00	19.32	6
		ATOM	4039	C17	TЗ	K	1	-30.440	74.343	10.264	1.00	19.02	6
	10	ATOM	4040	11	T 3	K	1 ·	-27.868	77.342	3.316	1.00	25.29	53
	•	ATOM	4041	12	Т3	K	1	-22.732	79.619	0,850	1.00	26.49	53
		ATOM	4042	13	T3	K	1	-23.602	75.792	7.334	1.00		53
		ATOM	4043	N1	т3	ĸ	ī	-28.680	73.342	8.762	1.00		7
		ATOM	4044	01	T3	K	1	-22.742	81.265	3.443	1.00		8
	15	ATOM	4045	02	T3	K	1	-25.267	76,388	4.595	1.00		8
	13		4045	03	T3	K		-30.816	73.159	10.382	1.00		8
		ATOM					1						8
		ATOM	4047	04	Т3	K	1	-31.028	75.359	10.729	1.00	20.16	0
		TER'	_	_				10.000	40 176	40.000	1 00	40.00	_
	••	ATOM	1	С			686	13.868	40.176	48.888	1.00		6
	20	ATOM	2	0			686	13.914	40.120	47.639	1.00		8
		ATOM	3	N			686	14.374	42.245	50.489	1.00		7
		ATOM	4	CA			686	14.937	41.070	49.710	1.00		6
		MOTA	5	N	HIS			13.038	39.527	49.705	1.00		7
		MOTA	6	CA	HIS			11.891	38.518	49.521	1.00		6
Ð	25	ATOM	7	CB	HIS	X	687	10.639	39.000	50.212	1.00	40.00	6
ľV		MOTA	8	CG	HIS	X	687	10.981	39.526	51.563	1.00	40.00	6
IJ		ATOM	9	CD2	HIS	X	687	11.021	38.908	52.753	1.00	40.00	6
j.		ATOM	10	ND1	HIS	Х	687	11.354	40.844	51.754	1.00	40.00	. 7
		ATOM	11	CE1	HIS	Х	687	11.614	40.994	53.034	1.00	40.00	6
juć.	30	ATOM	12	NE2				11.422	39.847	53.646	1.00	40.00	7
'\		ATOM	13	С	HIS			11.183	38.108	48.208	1.00		6
El		ATOM	14	0	HIS			11.674	38.361	47.094	1.00		8
		ATOM	15	N	LYS			10.064	37.458	48.649	1.00		7
ليا		ATOM	16	CA	LYS			8.911	36.858	47.931	1.00		6
	35	ATOM	17	CB	LYS			8.292	37.850	46.968	1.00		6
	55	ATOM	18	C	LYS			9.246	35.573	47.161	1.00		6
١Ď		ATOM	19	0	LYS			9.319	34.473	47.722	1.00		8
١Đ			20	N			689	9.426	35.754	45.865	1.00		7
		ATOM					689	9.661	34.640	44.924	1.00		6
	40	ATOM	21	CA					35.167	44.924	1.00		6
	40	ATOM	22	CB	ILE			9.731					
		ATOM	23		ILE			9.638	34.053	42.453	1.00		6
		ATOM	24		ILE			8.597	36.141	43.176	1.00		6
		ATOM	25		ILE			8.250	36.183	41.688	1.00		6
		ATOM	26		ILE			10.954	33.869	45.228	1.00		6
	45	ATOM	27	0	ILE			10.920	32.657	45.511	1.00		8
		ATOM	28	N	LEU			12.065	34.579	45.140	1.00		7
		MOTA	29	CA	LEU	X	690	13.391	33.996	45.397	1.00		6
		ATOM	30	CB	LEU	X	690	14.349	35.043	45.892	1.00		6
		ATOM	31	CG	LEU	X	690	14.450	36.168	44.906	1.00	40.00	6
	50	ATOM	32	CD1	LEU	X	690	15.397	37.261	45.363	1.00 4	40.00	6
		ATOM	33	CD2	LEU	X	690	14.940	35.695	43.540	1.00 4	40.00	6
		ATOM	34	С	ĻEU	Х	690	13.271	32.999	46.466	1.00	40.00	6
		ATOM	35	0	LEU			13.633	31.832	46.315	1.00 4	40.00	8
		ATOM	36	N	HIS			12.773	33.472	47.541	1.00 4		7
	55	ATOM	37	CA	HIS			12.557	32.559	48.569	1.00 4		6
		ATOM	38	СВ	HIS			11.729	33.212	49.658	1.00		6
		ATOM	39	CG	HIS			12.588	34.116	50.564	1.00 4		6
		ATOM	40		HIS			13.648	33.852	51.385	1.00 4		6
			40	CDZ		^	U D I	13.040	JJ. UJ2	JI.J0J	1.00		9

	5	ATOM	41	ND1	HIS	Х	691	12.359	35.484	50.669	1.00	40.00	7
		ATOM	42	CE1	HIS	X	691	13.242	35.991	51.513	1.00	40.00	6
		MOTA	43	NE2	HIS	X	691	14.016	35.031	51.949	1.00	40.00	7
		ATOM	44	С	HIS	X	691	11.954	31.331	47.861	1.00	40.00	6
		ATOM	45	0	HIS	X	691	12.505	30.240	47.882	1.00	40.00	8
	10	ATOM	46	N	ARG	X	692	10.839	31.494	47.167	1.00	40.00	7
		ATOM	47	CA	ARG	X	692	10.169	30.333	46.518	1.00	40.00	6
		ATOM	48	СВ	ARG	Х	692	9.118	30.800	45.517	1.00	40.00	6
		ATOM	49	С	ARG	X	692	11.153	29.402	45.752	1.00	40.00	6
		ATOM	50	0	ARG	X	692	11.030	28.168	45.779	1.00	40.00	8
	15	ATOM	51	N	LEU	X	693	12.117	30.000	45.072	1.00	40.00	7
		ATOM	52	CA	LEU			13.078	29.252	44.226	1.00	40.00	6
		ATOM	53	CB	LEU			13.784	30.210	43.274	1.00	40.00	6
		ATOM	54	CG	LEU			12.796	31.012	42.432	1.00	40.00	6
		ATOM	55		LEU			13.479	31.969	41.458		40.00	6
	20	ATOM	56		LEU			11.884	30.126	41.579		40.00	6
		ATOM	57	С	LEU			14.143	28.531	45.054		40.00	6
		ATOM	58	Ō	LEU			14.702	27.508	44.633		40.00	8
		ATOM	59	N	LEU			14.400	29.079	46.209		40.00	7
		ATOM	60	CA	LEU			15.407	28.538	47.115		40.00	6
Ð	25	ATOM	61	СВ	LEU			15.871	29.626	48.084		40.00	6
IŪ		ATOM	62	CG	LEU			16.692	30.716	47.404		40.00	6
Ü		ATOM	63		LEU			17.279	31.724	48,391		40.00	6
14		ATOM	64	CD2				17.879	30.156	46.619		40.00	6
'~ !		ATOM	65	C	LEU			14.837	27.404	47.957		40.00	6
ab.	30	ATOM	66	Ō	LEU			15.555	26.747	48.716		40.00	8
	- 4	ATOM	67	N	GLN			13.554	27.157	47.809		40.00	7
E 1		ATOM	68	ĊA	GLN			12.883	26.188	48.685		40.00	6
		ATOM	69	C	GLN			12.423	24.910	47.977		40.00	6
IJ		ATOM	70	Ö	GLN			12.309	23.845	48.598		40.00	8
IJ	35	ATOM	71	СВ	GLN			11.681	26.858	49.322		40.00	6
	55	ATOM	72	CG	GLN			12.074	28.125	50.080		20.00	6
D		ATOM	73	CD	GLN			10.899	28.768	50.801		20.00	6
		ATOM	74	OE1	GLN			9.772	28.296	50.671	1.00		8
		ATOM	75	NE2	GLN			11.092	29.828	51.560	1.00		7
	40	ATOM	76	N	ASP			12.155	25.020	46.714		40.00	7
		ATOM	77	CA	ASP			11.698	23.885	45.910		40.00	6
		ATOM	78	CB	ASP			11.450	24.400	44,497		40.00	6
		ATOM	79	CG	ASP			10.782	23.411	43.548		40.00	6
		ATOM	80		ASP			10.550	22.203	43.920		40.00	8
	45	ATOM	81		ASP			10.449	23.804	42.362		40.00	8
	. •	ATOM	82	C	ASP			12.774	22.806	45.876		40.00	6
		ATOM	83	0	ASP			13.937	23.077	45.562		40.00	8
		ATOM	84	N	SER			12.370	21.610	46.213		40.00	7
		ATOM	85	CA	SER			13.258	20.453	46,128		40.00	6
	50	ATOM	86	СВ	SER			12.685	19.371	47.049		40.00	6
	J J	ATOM	87	OG	SER			12.535	19.899	48.374		40.00	8
		ATOM	88	C.	SER			13.329	20.130	44.613		40.00	6
		ATOM	89	0	SER			14.247	20.573	43.914		40.00	8
		ATOM	90	N	SER			12.355	19.357	44.183		40.00	7
	55	ATOM	91	CA	SER			11.985	19.100	42.752		40.00	6
		ATOM	92	СВ	SER			11.693	20.417	42.036		40.00	6
		ATOM	93	OG	SER			10.510	21.000	42.577		40.00	8
		ATOM	94	C.	SER			12.887	18.340	41.758		40.00	6
		013	J -	⊸.		^	320	,					_

	5	ATOM	95	0	SER			13.253	17.158	42.026		40.00	8
		MOTA	96	OXT	SER	X	698	13.131	18.976	40.714	1.00	40.00	8
		TER											
	•	MOTA	1	CB	LYS			-33.793	96.885	6.491		40.00	6
		ATOM	2	С	LYS		688	-35.002	95.370	8.130		40.00	6
	10	ATOM	3	0	LYS			-36.027	95.520	8.779		40.00	8
		ATOM	4	N	LYS			-32.717	96.619	8.695		40.00	7
		ATOM	5	ÇA			688	-34.040	96.591	7.954		40.00	6
		MOTA	6	N	ILE		689	-34.578	93.781	6.908		40.00	. 7
		ATOM	7	CA	ILE		689	-35.862	93.106	7.268		40.00	б
	15	ATOM	8	CB	ILE		689	-35.971	91.759	6.572		40.00	6
		ATOM	9	CG2	ILE			-37.270	91.077	6.932		40.00	6
		ATOM	10	CG1	ILE			-35.917	91.937	5.062		40.00	6
		ATOM	11	CD1	ILE			-36.341	90.691	4.289		40.00	б
		ATOM	12	С	ILE			-36.032	92.870	8.780		40.00	6
	20	ATOM	13	0	ILE			-36.913	93.446	9.442		40.00	8
		ATOM	14	N	LEU			-35.019	92.834	9.787		40.00	7
		ATOM	15	CA	LEU			-34.956	92.320	11.163		40.00	6
		MOTA	16	CB	LEU			-33.528	92.432	11.697		40.00	6
		ATOM	17	CG	LEU			-32.516	91.647	10.864		40.00	6
۵	25	MOTA	18		LEU			-31.087	91.764	11.397		40.00	6
ľŪ		ATOM	19		LEU			-32.819	90.148	10.812		40.00	6
Ü		ATOM	20	С	LEU			-35.899	93.123	12.065		40.00	6
		ATOM	21	0			690	-36.570	92.492	12.928		40.00	8
, o		ATOM	22	N			691	-36.039	94.731	11.373		40.00	7
ash.	30	ATOM	23	CA	HIS			-36.634	94.923	12.683		40.00	6
'~!		ATOM	24	CB	HIS			-36.854	96.383	12.935		40.00	6
şi gene		ATOM	25	CG	HIS			-35.610	97.153	13.078		40.00	б
		ATOM	26		HIS			-34.757	97.640	12.159		40.00	6
L.		ATOM	27		HIS			-35.129	97.579	14.319		40.00	7
	35	ATOM	28		HIS			-34.039	98.290	14.122		40.00	6
Ü		ATOM	29	NE2				-33.786	98.346	12.815		40.00	. 7
Ü		MOTA	30	C	HIS			-37.972	94.287	12.756		40.00	6
100		ATOM	31	0	HIS			-38.240	93.417	13.545	1.00	40.00	8
•	_	ATOM	32	N	ARG			-38.265	94.388	11.505		40.00	7
	40	ATOM	33	CA	ARG			-39.577	93.869	11.276		40.00	6
		ATOM	34	CB	ARG			-39.653	93.692	9,795		40.00	6
		ATOM	35	CG	ARG			-40.759	92.764	9.329		40.00	6
		MOTA	36	CD	ARG			-40.618	92.422	7.848		40.00	6
		ATOM	37	NE	ARG			-41.849	92.641	7.091		40.00	7
	45	ATOM	38	CZ	ARG			-41.898	92.758	5.763		40.00	6
		ATOM	39		ARG			-40.784	92.695	5.024		40.00	7
		MOTA	40	NH2	ARG			-43.034	92.940	5.080		40.00	7
		ATOM	41	С	ARG			-39.941	92.547	11.995		40.00	б
		MOTA	42	0	ARG			-41.001	92.440	12.649		40.00	8
	50	MOTA	43	N	LEU			-39.095	91.576	11.816		40.00	7
}		ATOM	44	CA	LEU			-39.230	90.232	12.395		40.00	6
r		MOTA	45	CB	LEU			-38.362	89.337	11.615		40.00	6
		MOTA	46	CG	LEU			-38.737	89.375	10.132		40.00	6
		MOTA	47		LEU.			-37.794	88.570	9.247		40.00	6
	55	MOTA	48		LEU			-40.142	88.827	9.862		40.00	6
		MOTA	49	С	LEU			-38.921	90.378	13.816		40.00	6
		ATOM	50	0	LEU			-39.191	89.474	14.615		40.00	8
		ATOM	51	N	LEU	Y	694	-38.366	91.533	14.076	1.00	40.00	7

5	ATOM	52	CA	LEU	Y	694	-38.1	74 9	91.885	15.435	1.00	40.00	6
	ATOM	53	CB	LEU		694	-37.1	81 9	3.002	15.561	1.00	40.00	6
	ATOM	54	CG	LEU	Y	694	-35.7	99 9	2.377	15.869	1.00	40.00	6
	ATOM	55	CD1	LEU	Y	694	-34.8	97 9	3.275	16.702	1.00	40.00	б
	ATOM	56	CD2	LEU	Y	694	-35.8	97 9	1.055	16.661	1.00	40.00	6
10	ATOM	57	С	LEU	Y	694	-39.5	96 9	91.903	15.915	1.00	40.00	б
	ATOM	58	0	LEU	Y	694	-39.9	85 9	1.253	16.858	1.00	40.00	8
	ATOM	59	N	GLN	Y	695	-40.7	87 9	2.229	15.048	1.00	40.00	7
	ATOM	60	CA	GLN	Y	695	-42.0	34 9	1.457	15.543	1.00	40.00	6
	ATOM	61	С	GLN	Y	695	-43.0	54 9	0.901	14.240	1.00	40.00	6
15	ATOM	62	0	GLN	Y	695	-43.1	02 9	1.557	13.189	1.00	40.00	8
	ATOM	63	CB	GLN	Y	695	-42.3	62 9	2.025	16.923	1.00	40.00	6
	ATOM	64	CG	GLN	Y	695	-41.0	13 9	2.101	17.768	1.00	40.00	6
	MOTA	65	CD	GLN	Y	695	-40.9	43 9	1.235	19.059	1.00	40.00	6
	ATOM	66	OE1	GLN	Y	695	-41.8	28 9	0.426	19.318	1.00	40.00	8
20	ATOM	67	NE2	GLN	Y	695	-39.9	38 9	1.399	19.916	1.00	40.00	7
	ATOM	68	N	ASP	Y	696	-43.8	02 8	9.498	14,402	1.00	40.00	7
	MOTA	69	CA	ASP	Y	696	-44.7	84 8	8.354	13.428	1.00	40,00	6
	ATOM	70	C			696	-46.0	34 8	8.934	12.759	1.00	40.00	6
	MOTA	71	0	ASP	Y	696	-46.2	66 8	8.655	11.529	1.00	40.00	8
25	MOTA	72	СВ	ASP	Y	696	-45.2	11 8	7.192	14.322	1.00	40.00	6
	ATOM	73	CG	ASP	Y	696	-44.0	21 8	6.560	15.058	1.00	40.00	6
	ATOM	74	OD1	ASP	Y	696	-42.8	23 8	6.994	14.844	1.00	40.00	8
	ATOM	75	OD2	ASP	Y	696	-44.2	12 8	5.591	15.889	1.00	40.00	8
	END												



Atomic Coordinates for Human ERa Complexed with DES, and a GRIP1 NR-box 2 Peptide

Appendix

5



	10	CRYST1	54.09	4 82	.217	58.	041	90.00	11	1.33	90.00	P	21	2
	- •	ORIGX1	1.00	0000	0.000	000	0.	000000	0.	00000				
		ORIGX2		0000	1.000			000000		00000			•	
		ORIGX3		00000	0.000			000000		00000				
		SCALE1		18486	0.000			007221		00000	•			
	15	SCALE2		00000	0.012			000000		00000				
	13	SCALE3		00000	0.000			018497		00000				
		ATOM	1	CB	SER	A	305		. 230				1.00	73.26
		ATOM	2	C	SER	A	305		.331	-14.30			1.00	72.95
	20	ATOM	3	0	SER	A	305		.146				1.00	72.46
		ATOM	4	N	SER	A	305		.797				1.00	74.06
		ATOM	5	CA	SER	A	305		.138				1.00	73.59
		MOTA	6	N	LEU	A	306		. 982				1.00	72.21
	0.5	MOTA	7	CA	LEU	A	306		.329				1.00	71.05
Ö	25	ATOM	8	CB	LEU	A	306		.251				1.00	70.19
īŪ		ATOM	9	C	LEU	A	306		.929				1.00	69.57
Ø		MOTA	10	0	LEU	A	306		.580				1.00	69.96
₩		ATOM	11	N	ALA	A	307		.851				1.00	68.06
, red		ATOM	12	CA	ALA	A	307		. 358				1.00	64.88
ن خدا	30	MOTA	13	CB	ALA	A	307		.841				1.00	65.83
		ATOM	14	С	ALA	A	307		.792				1.00	63.36
		ATOM	15	0	ALA	A	307		.878	-8.98			1.00	62.73
))) 		ATOM	16	N	LEU	A	308		.064				1.00	62.52
		MOTA	17	CA	LEU	A	308		.487				1.00	62.57
IJ	35	ATOM	18	CB	LEU	A	308		.423	-11.74			1.00	62.81
		ATOM	19	CG	LEU	A	308		.214				1.00	64.21
		ATOM	20	CD1	LEU	A	308			-13.51			1.00	66.28
i.i.		ATOM	21	CD2	LEU	A	308		.919				1.00	63.80
٠Ď		ATOM	22	C	LEU	A	308		.903	-10.03			1.00	61.61
	40	MOTA	23	0	LEU	A	308		.385	-9.44			1.00	62.92
		ATOM	24	N	SER	A	309			-10.21			1.00	60.50
		ATOM	25	CA	SER	A	309		.928	-9.74			1.00	58.73
		MOTA	26	CB	SER	A	309		.720				1.00	59.53
		MOTA	27	OG	SER	Α	309		.889				1.00	59.47
	45	MOTA	28	C	SER	A	309		. 986	-8.37			1.00	57.05
		MOTA	29	0	SER	A	309		. 965				1.00	56.70
		MOTA	30	N	LEU	A	310		.940	-8.03			1.00	52.69
		MOTA	31	ÇA	LEU	A	310		. 877	-6.75			1.00	48.20
		MOTA	32	CB ·	LEU	A	310		.516	-6.59			1.00	48.32
	50	MOTA	33	CG	LEU	A	310		.301	-7.18	8 2.5	83	1.00	44.94
		ATOM	34	CD1	LEU	A	310	33	.951	-6.72	8 2.0	55	1.00	46.45
		ATOM	35	CD2	LEU	A	310	36	.417	-6.75	5 1.6	50	1.00	43.19
		ATOM	36	C	LEU	A	310	37	.086	-5.58	9 5.6	09	1.00	46.44
		MOTA	37	0	LEU	Α	310	36	.605	-5.60			1.00	46.78
	55	MOTA	38	N	THR	A	311	37	.812	-4.57	6 5.1	48	1.00	44.36
		ATOM	39	CA	THR	A	311	38	.034	-3.38	0 5.9	49	1.00	42.88
		ATOM	40	CB	THR	A	311	39	.313	-2.63	3 5.5	32	1.00	42.31
		MOTA	41	OG1	THR	A	311	39	.079	-1.93	6 4.3	03	1.00	42.50
		MOTA	42	CG2	THR	A	311	40	.464	-3.60	6 5.3	50	1.00	46.02
	60	MOTA	43	С	THR	A	311	36	.834	-2.47	5 5.6	74	1.00	43.21
		ATOM	44	0	THR	A	311	36	.021	-2.77	6 4.8	00	1.00	42.12

	5	MOTA	45	N	ALA	A	312	36.726	-1.372	6.409	1.00	42.16
		ATOM	46	CA	ALA	A	312	35.616	-0.444	6.228	1.00	40.10
		ATOM	47	CB	ALA	A	312	35.741	0.709	7.205	1.00	40.07
		ATOM	48	C	ALA	A	312	35.561	0.090	4,799	1.00	41.80
		ATOM	49	0	ALA	A	312	34.510	0.074	4.154	1.00	37.81
	10	ATOM	50	N	ASP	A	313	36.698	0.564	4.304	1.00	42.35
		ATOM	51	CA	ASP	A	313	36.752	1.104	2.953	1.00	42.27
		ATOM	52	CB	ASP	A	313	38.133	1.703	2.680	1.00	43.74
		ATOM	52 53	CG	ASP		313	38.323	3.054	3.348	1.00	46.62
	•					A						51.01
	1.5	MOTA	54	OD1	ASP	A	313	39.414	3.645	3.205	1.00	
	15	ATOM	55	OD2	ASP	A	313	37.380	3.529	4.015	1.00	48.89
		ATOM	56	C	ASP	A	313	36.422	0.027	1.926	1.00	38.68
		MOTA	57	0	ASP	A	313	35.704	0.281	0.959	1.00	38.75
		MOTA	58	N	GLN	A	314	36.931	-1.179	2.145	1.00	34.76
		MOTA	59	CA	GLN	A	314	36.666	-2.277	1.229	1.00	33.55
	20	MOTA	60	CB	GLN	A	314	37.462	-3.512	1.643	1.00	36.90
		ATOM	61	CG	GLN	A	314	38.963	-3.384	1,436	1.00	40.45
		ATOM	62	CD	GLN	A	314	39.700	-4.610	1.905	1.00	43,13
		MOTA	63	OE1	GLN	A	314	39.394	-5,196	2.935	1.00	43.60
		MOTA	64	NE2	GLN	A	314	40.701	-5.032	1.117	1,00	44.03
	25	ATOM	65	C	GLN	A	314	35.176	-2.595	1.201	1.00	34.95
Ď		ATOM	66	0	GLN	A	314	34.605	-2.860	0.140	1.00	32.89
Ū		ATOM	67	N	MET	A	315	34.542	-2.564	2.374	1.00	32.54
D		ATOM	68	CA	MET	A	315	33.115	-2.848	2,470	1.00	35.46
ليدة أحد		ATOM	69	CB	MET	A	315	32.650	-2.794	3.926	1.00	37.09
	30	ATOM	70	CG	MET	A	315	31.137	-2.777	4.097	1.00	39.42
	30		71	SD	MET		315	30.443	-4.426	4.053	1.00	46.55
عدا		ATOM				A			-5.205	5.397	1.00	45.29
'નો		ATOM	72	CE	MET	A	315	31.351				
Ii.		ATOM	73	C	MET	A	315	32.311	-1.859	1.640	1.00	31.83
	2.5	ATOM	74	0	MET	A	315	31.453	-2.247	0.852	1.00	32.10
ليا	35	MOTA	75	N	LAV	A	316	32.587	-0.560	1.830	1.00	32.62
IJ		MOTA	76	CA	VAL	A	316	31.882	0.470	1.079	1.00	31,09
		MOTA	77	CB	VAL	A	316	32.395	1.888	1.425	1.00	34.77
Ð		ATOM	78	CG1	VAL	A	316	31.786	2.899	0.461	1.00	34.10
Ū		ATOM	79	CG2	VAL	A	316	32.021	2.246	2.862	1.00	34.40
	40	MOTA	80	C	VAL	A	316	32.092		-0.414	1.00	33.48
		ATOM	81	0	VAL	A	316	31.145	0.266	-1.200	1.00	32.49
		ATOM	82	N	SER	A	317	33.337	-0.027	-0.795	1.00	33.49
		MOTA	83	CA	SER	A	317	33.682	-0.280	-2.187	1.00	32.88
		ATOM	84	CB	SER	A	317	35.165	-0.635	-2.297	1.00	35.77
	45	ATOM	85	QG	SER	A	317	35.825	0.277	-3.154	1.00	42.70
		ATOM	86	C	SER	A	317	32.849	-1.396	-2.801	1.00	30.71
		ATOM	87	0	SER	A	317	32.279	-1.238		1.00	31.14
		ATOM	88	N	ALA	A	318	32.792	-2.529		1.00	29.51
		ATOM	89	CA	ALA	A	318	32.035	-3.676		1.00	29.93
	50	ATOM	90	СВ	ALA	A	318	32.156	-4.811		1.00	28.56
	30	ATOM	91	C	ALA	A	318	30.565	-3.305		1.00	31.55
								29.961			1.00	30.64
		ATOM	92	0	ALA	A	318		-3.642			
		ATOM	93	N	LEU	A	319	29.997	-2.614		1.00	34.13
		ATOM	94	CA	LEU	A	319	28.597	-2.212		1.00	32.93
	55	ATOM	95	CB	LEU	A	319	28.170	-1.576		1.00	31.15
		ATOM	96	CG	LEU	A	319	28.076	-2.555	0.632	1.00	32.27
		ATOM	97	CD1	LEU	Α	319	27.523	-1.840	1.852	1.00	32.14
		MOTA	98	CD2	LEU	Α	319	27.194	-3.733	0.243	1.00	31.82
	•-	MOTA	99	С	LEU	A	319	28.340	-1.257		1.00	34.41
	60	ATOM	100	0	LEU	A	319	27.430	-1.475	-3.818	1.00	35.23
		ATOM	101	N	LEU	A	320	29.140	-0.195		1.00	32.53
		ATOM	102	CA '	LEU	A	320	28.972	0.756	-4.212	1.00	35.33
								161				

										•	
	5	ATOM	103	CB	LEU	A	320	30.052	1.839 -4.155	1.00	33.52
		ATOM	104	CG	LEU	A	320	29.974	2.899 -3.054	1.00	34.60
		ATOM	105	CDI	LEU	A	320	31.060	3.940 -3.292	1.00	33.69
		ATOM	106	CD2	LEU	A	320	28.611	3.562 -3.044	1.00	31.05
		ATOM	107	Ç	LEU	A	320	29.052	0.040 -5.561	1.00	35.41
	10	ATOM	108	Õ	LEU	A	320	28.230	0.271 -6.446	1.00	39.16
	10										
		ATOM	109	N	AASP	A	321	30.042	-0.833 -5.720	0.50	36.33
		ATOM	110	N	BASP	A	321	30.041	-0.839 -5.695	0.50	35.76
		MOTA	111	CA	AASP	A	321	30.214	-1.559 -6.977	0.50	37.71
		ATOM	112	CA	BASP	A	321	30.258	-1.595 -6.925	0.50	37.11
	15	MOTA	113	CB	AASP	A	321	31,537	-2.334 -6.973	0.50	40.01
		ATOM	114	CB	BASP	A	321	31.573	-2.374 -6.826	0.50	39.41
		MOTA	115	CG	AASP	A	321	31.694	-3.230 -8.195	0.50	41.93
		ATOM	116	CG	BASP	A	321	32.770	-1.562 -7.284	0.50	39.96
		MOTA	117	OD1	AASP	A	321	31.523	-2.733 -9.329	0.50	42.11
	20	ATOM	118	OD1	BASP	A	321	33.312	-1.868 -8.366	0.50	43.41
		ATOM	119	OD2	AASP	A	321	31.988	-4.432 -8.022	0.50	42.69
		ATOM	120	OD2	BASP	A	321	33.170	-0.622 -6.564	0.50	41.33
		ATOM	121	C	AASP	A	321	29.069	-2.524 -7.275	0.50	37.19
1225	25	MOTA	122	C	BASP	A	321	29.123	-2.565 -7.253	0.50	36.68
	25	ATOM	123	0	AASP	A	321	28.820	-2.861 -8.434	0.50	36.87
Ď		MOTA	124	0	BASP	A	321	28.934	-2.942 -8.411	0.50	36.08
ľŲ		ATOM	125	N	ALA	A	322	28.374	-2.968 -6.235	1.00	35.35
IJ		ATOM	126	CA	ALA	A	322	27.268	-3.902 -6.417	1.00	31.59
غد أ		ATOM	127	CB	ALA	A	322	27.124	-4.781 -5.175	1.00	30.73
يُحه'	30	MOTA	128	C	ALA	A	322	25.946	-3.204 -6.709	1.00	30.07
14		ATOM	129	0	ALA	A	322	24.955	-3.857 -7.036	1.00	26.53
, w. j		ATOM	130	N	GLU	Α	323	25.932	-1.880 -6.596	1.00	27.98
£1		ATOM	131	CA	GLU	A	323	24.713	-1.117 -6.827	1.00	29.88
		ATOM	132	CB	GLU	A	323	25.027	0.380 -6.855	1.00	30.98
لدا	35	ATOM	133	ÇG	GLU	A	323	24.870	1.068 -5.509	1.00	31.62
	<i>33</i>	ATOM	134	CD	GLU	A	323	23.463	0.940 -4.960		
لدا										1.00	31.98
		ATOM	135	OE1	GLU	A	323	23.183	-0.056 -4.257	1.00	33.10
ď		ATOM	136	OE2	GLU	A	323	22.640	1.836 -5.233	1.00	30.01
ŧΩ	40	ATOM	137	C	GLU	A	323	24.010	-1.515 -8.123	1.00	30.86
	40	ATOM	138	0	GLU	Α	323	24.655	-1.705 -9.151	1.00	28.86
		ATOM	139	N	PRO	Α	324	22.674	-1.659 -8.083	1.00	30.66
		ATOM	140	CD	PRO	A	324	21.774	-1.466 -6.935	1.00	31.01
		ATOM	141	CA	PRO	A	324	21.935	-2.032 -9.290	1.00	30.29
		ATOM	142	CB	PRO	A	324	20.613	-2.598 -8.760	1.00	31.42
	45	MOTA	143	CG	PRO	A	324	20.626	-2.363 -7.258	1.00	33.66
		MOTA	144	C	PRO	A	324	21.717	-0.785-10.138	1.00	27.46
		ATOM	145	0	PRO	A	324	21.893	0.332 -9.668	1.00	26.19
		ATOM	146	N	PRO	A	325	21.335	-0.959-11.403	1.00	27.80
		ATOM	147	CD	PRO	A	325	21.082	-2.198-12.161	1.00	27.35
	50	ATOM									
	30		148	CA	PRO	A	325	21.125	0.242-12.211	1.00	25.59
		ATOM	149	CB	PRO	A	325	21.258	-0.266-13.637	1.00	24.02
		ATOM	150	CG	PRO	A	325	20.773	-1.695-13.559	1.00	26.00
		ATOM	151	C	PRO	A	325	19.749	0.830-11.954	1.00	23.73
		ATOM	152	0	PRO	A	325	18.873	0.165-11.402	1.00	24.83
	55	ATOM	153	N	ILE	A	326	19.571	2.081-12.352	1.00	22.11
		ATOM	154	CA	ILE	A	326	18.296	2.762-12.212	1.00	24.01
		ATOM	155	CB	ILE	A	326	18.502	4.282-12.133	1.00	25.97
		ATOM	156	CG2	ILE	A	326	17,168	4.992-12.286	1.00	20.75
		ATOM	157	CG1	ILE	A	326	19.189	4.632-10.805	1.00	29.31
	60	ATOM	158	CD1	ILE	A	326	19.301	6.120-10.525	1.00	32.91
	-	ATOM	159	C	ILE	A	326	17.506	2.408-13.471	1.00	25.72
		ATOM	160	0	ILE	A	326	17.906	2.758-14.581	1.00	25.55
			100	•	112	^	320	17.300	Z. /30-14.361	¥.00	23.33

	5	ATOM	161	N	LEU	A	327	16.392	1.703-13.301	1.00	25.57
		ATOM	162	CA	LEU	A	327	15.595	1.279-14.439	1.00	23.80
		ATOM	163	CB	LEU	A	327	14.872	-0.029-14.104	1.00	23.96
		ATOM	164	CG	LEU	A	327	15.778	-1.210-13.728	1.00	19.89
		ATOM	165	CD1	LEU	A	327	14.944	-2.462-13.583	1.00	21.19
	10										
	10	ATOM	166	CD2	LEU	A	327	16.850	-1.415-14.805	1.00	17.53
		MOTA	167	C	LEU	A	327	14.598	2.317-14.935	1.00	27.16
		MOTA	168	0	LEU	A	327	14.161	3.202-14.194	1.00	25.98
		ATOM	169	N	TYR	A	328	14.251	2.207-16.210	1.00	26.56
		MOTA	170	CA	TYR	A	328	13.303	3.123-16.814	1.00	24.45
	15	ATOM	171	CB	TYR	A	328	13.724	3.465-18.245	1.00	26.72
		ATOM	172	CG	TYR	A	328	14.587	4.693-18.314	1.00	27.73
		ATOM	173	CD1	TYR	A	328	14.021	5.949-18.518	1.00	28.56
		ATOM	174	CE1	TYR	A	328	14.798	7.092-18.509	1.00	29.10
	30	ATOM	175	CD2	TYR	A	328	15.962	4.612-18.110	1.00	26.01
	20	ATOM	176	CE2	TYR	A	328	16.750	5.753-18.098	1.00	30.63
		ATOM	177	CZ	TYR	A	328	16.157	6.988-18.297	1.00	30.07
		ATOM	178	OH	TYR	A	328	16.917	8.130-18.265	1.00	37.94
		ATOM	179	C	TYR	A	328	11.923	2.501-16.827	1.00	24.95
		MOTA	180	0	TYR	A	328	11.774	1.274-16.846	1.00	27.02
	25	ATOM	181	N	SER	Α	329	10.912	3.358-16.800	1.00	25.60
Ö		ATOM	182	CA	SER	A	329	9.533	2.908-16.837	1.00	29.45
Ü		ATOM	183	СВ	SER	A	329	8.661	3.858-16.020	1.00	30.80
ΙĎ		ATOM	184	OG	SER	A	329	7.297	3.721-16.364	1.00	33.74
							329	9.129	2.947~18.313	1.00	31.30
<u>.</u>	30	ATOM	185	С	SER	A					
14	30	ATOM	186	0	SER	A	329	9.908	3.397-19.154	1.00	27.35
-		ATOM	187	N	GLU	A	330	7.930	2.469-18.629	1.00	32.98
1		ATOM	188	CA	GLU	A	330	7.459	2.482-20.007	1.00	35.10
11		MOTA	189	CB	GLU	A	330	6.031	1.968-20.074	1.00	34.67
		ATOM	190	C	GLU	A	330	7.532	3.924-20.505	1.00	40.06
لدا	35	ATOM	191	0	GLU	A	330	7.068	4.841-19.826	1.00	42.65
l.J		ATOM	192	N	TYR	A	331	8.124	4.126-21.681	1.00	41.16
100		ATOM	193	CA	TYR	Α	331	8.263	5.470-22.234	1.00	42.66
		ATOM	194	CB	TYR	A	331	9.323	5.482-23.350	1.00	42.54
' <u>!</u>		ATOM	195	CG	TYR	A	331	9.202	4.347-24.345	1.00	38.67
Ū	40	ATOM	196	CD1	TYR	A	331	10.105	3.284-24.334	1.00	34.66
	70	ATOM	197	CE1	TYR	Ā	331	9.985	2.228-25.233	1.00	34.89
		MOTA	198	CD2	TYR	A	331	8.174	4.327-25.287		
		ATOM	199	CE2	TYR	A	331	8.045	3.276-26.193	1.00	34.65
		MOTA	200	CZ	TYR	A	331	8.950	2.232-26.159	1.00	30.73
	45	ATOM	201	OH	TYR	A	331	8.814	1.191-27.042	1.00	30.97
		MOTA	202	С	TYR	A	331	6.943	6.043-22.754	1.00	46.24
		ATOM	203	0	TYR	A	331	6.018	5.301-23.096	1.00	45.38
		ATOM	204	N	ASP	A	332	6.868	7.372-22.792	1.00	49.11
		ATOM	205	CA	ASP	A	332	5.684	8.092-23.262	1.00	52.40
	50	ATOM	206	СВ	ASP	A	332	5.781	8.321-24.772	1.00	52.86
		ATOM	207	C	ASP	A	332	4.356	7.410-22.926	1.00	52.90
		ATOM	208	0	ASP		332	3.561	7.116-23.818	1.00	53.94
						A					
		ATOM	209	N	PRO	A	333	4.103	7.144-21.632	1.00	53.63
	~ ~	ATOM	210	CD	PRO	A	333	4.962	7.418-20.465	1.00	53.63
	55	ATOM	211	CA	PRO	A	333	2.840	6.497-21.253	1.00	53.55
		ATOM	212	CB	PRO	A	333	3.070	6.076-19.802	1.00	53.78
		ATOM	213	CG	PRO	A	333	4.101	7.028-19.290	1.00	53.42
		ATOM	214	C	PRO	A	333	1.673	7.478-21.398	1.00	52.17
		ATOM	215	0	PRO	A	333	1.879	8.690-21.395	1.00	51.19
	60	ATOM	216	N	THR	A	334	0.457	6.956-21.532	1.00	52.26
	-	ATOM	217	CA	THR	A	334	-0.724	7.802-21.687	1.00	54.21
		ATOM	218	CB	THR	A	334	-1.997	6.949-21.813	1.00	53.90
		-12-51-1	~ ~ ~		* ***	-	J J 4	2.221	J. J		JJ.JU

	5	MOTA	219	OG1	THR	A	334	-1.971	6.256-23.065	1.00	53.92
		MOTA	220	CG2	THR	A	334	-3.237	7.821-21.761	1.00	54.15
		MOTA	221	С	THR	A	334	-0.864	8.782-20.525	1.00	56.34
		ATOM	222	0	THR	A	334	-1.389	8.443-19.461	1.00	56.44
		MOTA	223	N	ARG	A	335	-0.386	10.002-20.766	1.00	58.24
	10	MOTA	224	ÇA	ARG	A	335	-0.377	11.099-19.801	1.00	57.96
		MOTA	225	CB	ARG	A	335	-0.569	12.427-20.531	1.00	60.22
		MOTA	226	C	ARG	A	335	-1.349	10.996-18.627	1.00	56.61
		MOTA	227	0	ARG	A	335	-0.919	10.908-17.475	1.00	60.70
		ATOM	228	N	PRO	A	336	-2.667	11.015-18.889	1.00	52.43
	15	ATOM .	229	CD	PRO	A	336	-3.389	11.117-20.165	1.00	49.06
		ATOM	230	CA	PRO	A	336	-3.587	10.915-17.752	1.00	49.58
		MOTA	231	CB	PRO	A	336	-4.911	11.456-18.302	1.00	48.66
		ATOM	232	CG	PRO	A	336	-4.645	11.809-19.760	1.00	51.33
		ATOM	233	C	PRO	A	336	-3.698	9.468-17.279	1.00	49.25
	20	ATOM	234	ō	PRO	A	336	-4.340	8.644-17.929	1.00	48.06
		ATOM	235	N	PHE	A	337	-3.063	9.170-16.147	1.00	47.90
		ATOM	236	CA	PHE	A	337	-3.055	7.821-15.582	1.00	46.61
		ATOM	237	CB	PHE	A	337	-2.063	7.732-14.421	1.00	47.73
		ATOM	238	CG	PHE	A	337	-0.649	8.011-14.805	1.00	46.27
	25	ATOM	239	CD1	PHE	A	337	-0.017	9.168-14.368	1.00	46.55
ğ		ATOM	240	CD2	PHE	A	337	0,061	7.113-15.591	1.00	48.12
Ü		ATOM	241	CE1	PHE	A	337	1.305	9.429-14.707	1.00	48.09
ij		ATOM	242	CE2	PHE	A	337	1.386	7.364-15.938	1.00	47.57
i.∪		ATOM	243	CZ	PHE	A	337	2.009	8.525-15.495	1.00	48.40
,7] !==	30	ATOM	244	C	PHE	A	337	-4.401	7.338-15.071	1.00	46.15
ļaš.	30	ATOM	245	0	PHE	A	337	-5.250	8.127-14.671	1.00	48.34
1		ATOM	246	N	SER	A	338	-4.573	6.022-15.080	1.00	45.06
		ATOM	247	CA	SER	A	338	-5.781	5.385-14.578	1.00	45.12
E) Jakov		ATOM	248	CB	SER	A	338	-6.477	4.594-15.684	1.00	44.49
	35	ATOM	249	OG	SER	A	338	-6.227	3.206-15.554	1.00	45.78
ļ.J	33	ATOM	250	C	SER	A	338	-5.292	4.439-13.488	1.00	47.04
ليا		ATOM	251	0	SER	A	338	-4.090	4.186-13.387	1.00	44.08
		ATOM	252	N	GLU	A	339	-6.206	3.916-12.676	1.00	45.63
Ð		ATOM	253	CA	GLU	A	339	-5.802	3.012-11.608	1.00	45.40
ıŪ	40	ATOM	254	CB	GLU	A	339	-7.015	2.521-10.814	1.00	45.66
	40	MOTA	255	CG	GLU	A	339	-6.637	1.680 -9.600	1.00	46.81
		ATOM	256	CD	GLU	A	339	-7.717	1.652 -8.535	1.00	47.56
		ATOM	257	OE1	GLU	A	339	-8.471	0.656 -8.477	1.00	47.37
		MOTA	258	OE2	GLU	A	339	-7.810	2.625 -7.754	1.00	49.29
	45	MOTA	259	C	GLU	A	339	-5.040	1.821-12.170	1.00	45.23
	73	ATOM	260	0	GLU	A	339	-3.862	1.641-11.872	1.00	46.51
		ATOM	261	Ŋ	ALA	A	340	-5.712	1.010-12.982	1.00	42.87
		ATOM	262	CA	ALA	A	340	-5.712	-0.158-13.574	1.00	40.24
	•			CB							
	50	ATOM	263	CB	ALA	A	340	-6.055	-0.871-14.496	1.00	41.40
	20	ATOM	264 265		ALA	A	340	-3.837	0.273-14.350	1.00	38.83
		ATOM	265	0	ALA	A	340	-2.909	-0.515-14.543	1.00	35.58
		ATOM	266	N	SER	A	341	-3.836	1.535-14.773	1.00	35.79
		MOTA	267	CA	SER	A	341	-2.742	2.133-15.537	1.00	36.58
	66	MOTA	268	CB	SER	A	341	-3.231	3.454-16.154	1.00	39.01
	55	ATOM	269	OG	SER	A	341	-2.211	4.130-16.864	1.00	36.09
		ATOM	270	C	SER	A	341	-1.480	2.376-14.691	1.00	35.63
		MOTA	271	0	SER	A	341	-0.389	1.913-15.038	1.00	33.20
		MOTA	272	N	MET	A	342	-1.626	3.115-13.595	1.00	35.92
	60	ATOM	273	CA	MET	A	342	-0.498	3.396-12.708	1.00	35.88
	60	ATOM	274	CB	MET	Α	342	-0.912	4.396-11.623	1.00	35.96
		ATOM	275	CG	MET	A	342	0.241	5.218-11.059	1.00	38.02
		ATOM	276	SD	MET	Α	342	-0.308	6.374 -9.780	1.00	44.73

	5	ATOM	277	CE	MET	A	342	0.626	7.815-10.205	1.00	42.49
		MOTA	278	C	MET	A	342	-0.011	2.100-12.059	1.00	34.17
		ATOM	279	0	MET	A	342	1.195	1.880-11.909	1.00	33.40
		ATOM	280	N	MET	A	343	-0,957	1.243-11.687	1.00	29.95
		ATOM	281	CA	MET	A	343	-0.640	-0.034-11.062	1.00	31.96
	10	ATOM	282	CB	MET	A	343	-1.921	-0.810-10.751	1.00	31.70
	10	ATOM	283	CG	MET	A	343	-2.667	-0.337 -9.502	1.00	37.13
								-1.749			
		MOTA	284	SD	MET	A	343		-0.507 -7.940	1.00	36.00
		MOTA	285	CE	MET	A	343	-1.468	-2.299 -7.886	1.00	32.14
		MOTA	286	C	MET	A	343	0.234	-0.875-11.979	1.00	31.72
	15	MOTA	287	0	MET	A	343	1.159	-1.558-11.527	1.00	30.26
		MOTA	288	N	GLY	A	344	-0.069	-0.823-13.272	1.00	29.04
		MOTA	289	CA	GLY	A	344	0.688	-1.591-14.242	1.00	24.94
		MOTA	290	C	GLY	A	344	2.104	-1.085-14.396	1.00	26.01
		MOTA	291	0	GLY	A	344	3.046	-1.873-14.463	1.00	28.72
	20	MOTA	292	N	LEU	A	345	2.257	0.232-14.471	1.00	26.97
	-	MOTA	293	CA	LEU	A	345	3.576	0.839-14.608	1.00	31.15
		ATOM	294	CB	LEU	A	345	3.459	2.361-14.753	1.00	30.06
		ATOM	295	CG	LEU	A	345	2.765	2.924-15.995	1.00	33.50
		MOTA	296	CD1	LEU	A	345	2.901	4.439-15.999	1.00	33.52
, 454	25									1.00	33.32
j	23	ATOM	297	CD2	LEU	A	345	3.379	2.324-17.257		
D		ATOM	298	C	LEU	A	345	4.433	0.534-13.383	1.00	30.31
IJ		MOTA	299	0	LEU	A	345	5.564	0.061-13.505	1.00	32.80
1,0		MOTA	300	N	LEU	A	346	3.884	0.813-12.205	1.00	27.83
4		ATOM	301	CA	LEU	A	346	4.595	0.596-10.947	1.00	26.19
	30	ATOM	302	CB	LEU	A	346	3.729	1.063 -9.783	1.00	24.51
4		MOTA	303	CG	LEU	A	346	3.483	2.569 -9.682	1.00	26.33
ابرا		ATOM	304	CD1	LEU	A	346	2.623	2.844 -8.463	1.00	27.33
£1		ATOM	305	CD2	LEU	A	346	4.809	3.317 -9.587	1.00	24.89
		MOTA	306	С	LEU	A	346	5.032	-0.848-10.707	1.00	25.72
ليرا	35	ATOM	307	0	LEU	A	346	6.181	-1.102-10.345	1.00	29.86
لدا		ATOM	308	N	THR	A	347	4.117	-1.793-10.891	1.00	23.80
; ~		ATOM	309	CA	THR	A	347	4.436	-3.196-10.674	1.00	23.91
		ATOM	310	CB	THR	A	347	3.164	-4.058-10.641	1.00	26.39
Ď		ATOM	311	OG1	THR	A	347	2.421	-3.860-11.849	1.00	24.57
ıĎ	40	ATOM	312	CG2	THR	A	347	2.301	-3.682 -9.444	1.00	23.98
	40	ATOM	313	C	THR	A	347	5.366	-3.734-11.756	1,00	26.17
		ATOM		0	THR	A	347	6.176	-4.622-11.496		27.44
		ATOM	315	N	ASN	A	348	5.242	-3.197-12.970	1.00	25.48
	4.5	MOTA	316	CA	ASN	A	348	6.092	-3.617-14.082	1.00	23.77
	45	MOTA	317	CB	ASN	A	348	5.657	-2.926-15.385	1.00	24.59
		ATOM	318	CG	ASN	A	348	6.522	-3.302-16.571	1.00	29.93
		MOTA	319	OD1	ASN	A	348	7.616	-2.799-16.771	1.00	24.81
		ATOM	320	ND2	ASN	Α	348	6.010	-4.236-17.391	1.00	32.61
		ATOM	321	C	ASN	Α	348	7.532	~3.229-13.741	1.00	22.82
	50	ATOM	322	0	ASN	A	348	8.453	-4.027-13.870	1.00	18.83
		ATOM	323	N	LEU	A	349	7.711	-1.993-13.288	1.00	22.58
		ATOM	324	CA	LEU	A	349	9.030	-1.507-12.914	1.00	21.85
		ATOM	325	CB	LEU	A	349	8.929	-0.028-12.536	1.00	22.00
		ATOM	326	CG	LEU	A	349	10.155	0.673-11.953	1.00	23.64
	55	ATOM	327	CD1	LEU	A	349	11.224	0.826-13.017	1.00	19.35
	<i>J J</i>			CD2			349	9.726	2.040-11.415	1.00	21.97
		ATOM	328		LEU	A					
		MOTA	329	C	LEU	A	349	9.564	-2.335-11.734	1.00	22.94
		MOTA	330	0	LEU	A	349	10.724	-2.749-11.717	1.00	23.97
	60	MOTA	331	N	ALA	A	350	8.705.		1.00	21.67
	60	ATOM	332	CA	ALA	A	350	9.113	-3.356 -9.586	1.00	21.83
		ATOM	333	CB	ALA	A	350	7.963	-3.441 -8.593	1.00	18.95
		ATOM	334	C	ALA	A	350	9.568	-4.757 -9.985	1.00	21.90

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	5	MOTA	393	SD	MET	A	357	15.051	-6.755 -3.531	1.00	23.64
		ATOM	394	CE	MET	A	357	14.189	-5.332 -4,163	1.00	23.13
		ATOM	395	Ċ	MET	A	357	18.411	-8.259 -6.192	1.00	23.69
			396	ō		A	357	19.337	-8.328 -5.389		24.41
		MOTA									
		ATOM	397	N	ILE	A	358	17.856	-9.331 -6.746	1.00	27.14
	10	ATOM	398	CA	ILE	A	358		-10.672 -6.425	1.00	28.79
		MOTA	399	CB	ILE	A	358		-11.725 -7.232	1.00	32.42
		ATOM	400	CG2	ILE	A	358	18.267	-13.064 -7.220	1.00	32.77
		ATOM	401	CG1	ILE	A	358	16.125	-11.880 -6.644	1.00	31.94
		ATOM	402	CD1	ILE	A	358		-12.196 -7.680	1.00	34.85
	15	ATOM	403	C	ILE	A	358		-10.802 -6.728	1.00	28.75
	13										
		ATOM	404	0	ILE	A .	358	20.569		1.00	31.60
		ATOM	405	N	ASN	A	359		-10.325 -7.897	1.00	27.91
		MOTA	406	CA	asn	A	359	21.601	-10.401 -8.293	1.00	29.16
		ATOM	407	CB	asn	A	359	21.721	-10.172 -9.801	1.00	31.88
	20	ATOM	408	CG	ASN	A	359	21.253	-11.381-10.599	1.00	39.34
		ATOM	409	OD1	ASN	A	359	21.916	-12.422-10.612	1.00	41.27
		ATOM	410	ND2	ASN	A	359		-11.255-11.253		38.58
•		ATOM	411	C	ASN	A	359	22.476	-9.436 -7.510	1.00	30.75
							359	23.686	-9.629 -7.412	1.00	33.35
	26	ATOM	412	0	ASN	A					
	25	ATOM	413	N	TRP	A	360	21.872	-8.400 -6.940	1.00	30.07
۱ D		ATOM	414	CA	TRP	A	360	22.634	-7.451 -6.132	1.00	27.87
IJ		MOTA	415	CB	TRP	A	360	21.849	-6.150 -5.948	1.00	24.80
Ø		ATOM	416	CG	TRP	A	360	22,196	-5.392 -4.691	1.00	23.04
		ATOM	417	CD2	TRP	A	360	21.501	-5.443 -3.438	1.00	19.83
·	30	ATOM	418	CE2	TRP	A	360	22.147	-4.543 -2.564	1.00	22.31
-		ATOM	419	CE3	TRP	A	360	20.392	-6.165 -2.972	1.00	20.09
,		ATOM	420	CD1	TRP	A	360	23.212	-4.488 -4.529	1.00	18.99
					TRP	A	360	23.187	-3.974 -3.255	1.00	21.17
§1		ATOM	421	NE1							
	2.5	ATOM	422	CZ2	TRP	A	360	21.721	-4.340 -1.243	1.00	20.43
ليا	35	ATOM	423	CZ3	TRP	A	360	19.968	-5.965 -1.661	1.00	20.12
لدا		ATOM	424	CH2	TRP	A	360	20.635	-5.057 -0.812	1.00	18.54
		ATOM	425	C	TRP	A	360	22,892	-8.099 -4.766	1.00	24.88
		ATOM	426	0	TRP	A	360	23.978	-7.980 -4.198	1.00	25.00
· ##		ATOM	427	N	ALA	Α	361	21.879	-8.789 -4.252	1.00	24.08
144	40	ATOM	428	CA	ALA	A	361	21,972	-9.462 -2.958	1.00	26.06
	. •	ATOM	429	CB	ALA	A	361	20.676	-10.203 -2.672	1.00	20.27
		ATOM	430	C	ALA	A	361	23.161		1.00	28.44
•		ATOM	431	0	ALA	A	361		-10.531 -1.876	1.00	28.95
	4.5	MOTA	432	N	LYS	A	362		-11.144 -3.992	1.00	31.41
	45	MOTA	433	CA	LYS	A	362		-12.097 -4.047	1.00	33.33
		MOTA	434	CB	LYS	A	362		-12.824 -5.390	1.00	34.81
		ATOM	435	CG	LYS	A	362	23,319	-13.608 -5.756	1.00	36.27
		ATOM	436	CD	LYS	A	362	23.458	-14.178 -7.167	1.00	38.30
		ATOM	437	CE	LYS	A	362		-15.193 -7.472	1.00	40.94
	50	ATOM	438	NZ	LYS	A	362		-15.322 -8.937	1.00	42.49
	30	MOTA	439	C	LYS	A	362		-11.351 -3.893	1.00	34.17
		MOTA	440	0	LYS	A	362		-11.977 -3.595	1.00	35.40
		MOTA	441	N	AARG	A	363		-10.059 -4.095	0.50	34.23
		MOTA	442	N	BARG	A	363		-10.059 -4.095	0.50	34.03
	55	ATOM	443	CA	AARG	A	363	27.035	-9.254 -3.987	0.50	33.25
		ATOM	444	CA	BARG	A	363	27.035	-9.254 -3.987	0.50	32.83
		ATOM	445	CB		A	363	27.031	-8.153 -5.044	0.50	34.67
		ATOM	446	CB	BARG		363	27.031	-8.153 -5.045	0.50	34.20
		ATOM	447	CG		A	363	26.933	-8.654 -6.478	0.50	36.32
	60	ATOM	448	CG	BARG	A	363	26.930	-8.654 -6.480	0.50	35.56
							363		-7.775 -7.415	0.50	38.39
		ATOM	449	CD	AARG	A		27.745			
		MOTA	450	CD	BARG	A	363	27.752	-7.781 -7.414	0.50	37.18

	5	ATOM	451	NE	AARG	A	363	29.171	-7.793	-7.091	0.50	39.98
		ATOM	452	NE	BARG	A	363	27.195	-7.725	-8.762	0.50	37.39
		ATOM	453	CZ	AARG	A	363	30.086		-7.692	0.50	40.54
		ATOM	454	CZ	BARG	A	363	27.905		-9.855	0.50	40.02
					AARG	A	363	29.735		-8.675	0.50	38.13
	10	MOTA	455	NH1		-						
	10	ATOM	456	NH1	BARG		363	29.205		-9.761	0.50	40.42
		ATOM	4.57	NH2	AARG	A	363	31.358		-7.326	0.50	43.19
		MOTA	458	NH2	BARG	A	363	27.311	-7,436	-11,041	0.50	38.91
		ATOM	459	C	AARG	A	363	27.207	-8.630	-2.610	0.50	33.28
		ATOM	460	С	BARG	Α	363	27.207	-8,630	-2.610	0.50	32.81
	15	ATOM	461	0	AARG	A	363	28.223	-7.992	-2.344	0.50	34.18
		ATOM	462	0	BARG	A	363	28.223		-2.345	0.50	33.43
		ATOM	463	N	VAL	A	364	26.215		-1.740	1.00	33.12
		ATOM	464	CA	VAL	A	364	26.288		-0.389	1.00	33.63
		ATOM	465	CB	VAL	A	364	24.898	-8.178	0.292	1.00	34.97
	20	ATOM	466	CG1	VAL	A	364	25.036	-7.608	1.700	1.00	35.44
		ATOM	467	CG2	VAL	A	364	23.946	-7.328	-0.532	1.00	36.69
		ATOM	468	С	VAL	A	364	27.184	-9.157	0.428	1.00	34.27
		ATOM	469	0	VAL	A	364	26.878	-10.341	0.603	1.00	34.95
		ATOM	470	N	PRO	A	365	28.306	-8.626	0.935	1.00	36.08
	25	ATOM	471	CD	PRO	A	365	28.775	-7.235	0.793	1.00	34.84
٦	2,7						365		-9.442			37.82
Ď		ATOM	472	CA	PRO	A		29.231		1.733	1.00	
IU		MOTA	473	CB	PRO	A	365	30.110	-8.408	2.430	1.00	34.31
IJ		ATOM	474	CG	PRO	A	365	30.127	-7.247	1.475	1.00	37.77
ᆂ		MOTA	475	C	PRO	A	365	28.538	-10.373	2.720	1.00	37.61
14	30	ATOM	476	0	PRO	A	365	27.692	-9.945	3.507	1.00	37.74
i ali		ATOM	477	N	GLY	Α	366	28.890	-11.654	2.654	1.00	39.04
١٠٠		ATOM	478	CA	GLY	A	366	28.307	-12.635	3.554	1.00	38.27
		ATOM	479	C	GLY	Α	366	26.991	-13.264	3.138	1.00	39.32
en.		ATOM	480	0	GLY	A	366		-14.336	3.635	1.00	39.53
	35	ATOM	481	N	PHE	Α	367	26.246		2.236	1.00	38.60
	<i>J J</i>						367			1.783		
Ų.		ATOM	482	CA	PHE	A		24.960	-13.148		1.00	36.36
		ATOM	483	CB	PHE	A	367	24.281	-12.178	0.808	1.00	32.10
Ô		ATOM	484	CG	PHE	A	367	22.827		0.581	1.00	30.12
ō		ATOM	485	CD1	PHE	A	367	22.401		-0.596	1.00	28,95
122	40	ATOM	486	CD2	PHE	A	367 [.]	21.882	-12.176	1.563	1.00	26.18
		ATOM	487	CE1	PHE	A	367	21.050	-13.400	-0.792	1.00	29.42
		ATOM	488	CE2	PHE	A	367	20.535	-12.491	1.373	1.00	27.60
		ATOM	489	CZ	PHE	A	367	20.118	-13.103	0.196	1.00	26.81
	•	ATOM	490	C	PHE	A	367	25.072	-14.519	1.117	1.00	36.82
	45	ATOM	491	ō	PHE	A	367		-15.398	1.359	1.00	36.55
	7.5		492		VAL		368		-14.694	0.276		38.28
		ATOM		N		A					1.00	
		ATOM	493	CA	VAL	A	368		-15.965		1.00	42.34
		MOTA	494	CB	VAL	A	368		-15.850		1.00	41.78
		ATOM	495	CG1	VAL	A	368		-14.831		1.00	44.60
	50	MOTA	496	CG2	VAL	A	368	28.707	-15.457	-0.873	1.00	42.23
		MOTA	497	С	VAL	A	368	26.664	-17.100	0.533	1.00	43.85
		ATOM	498	0	VAL	A	368	26.469	-18.274	0.216	1.00	44.85
		ATOM	499	N	ASP	A	369		-16.750	1.699	1.00	44.93
		ATOM	500	CA	ASP	A	369		-17.755	2.688	1.00	44.96
	55	ATOM	501	CB	ASP	A	369		-17.106	3.849	1.00	43.76
))											
		ATOM	502	CG	ASP	A	369		-16.413	3.404	1.00	43.04
		ATOM	503	OD1	ASP	A	369		-15.570	4.167	1.00	44.32
		MOTA	504	OD2	ASP	A	369		-16.709	2.293	1.00	46.76
		MOTA	505	C	ASP	A	369	26.340	-18.465	3.228	1.00	45.89
	60	ATOM	506	0	ASP	A	369	26.360	-19.671	3.475	1.00	48.61
		ATOM	507	N	LEU	A	370		-17.714	3.407	1.00	43.59
		ATOM	508	CA	LEU	A	370	24.020	-18.279	3.924	1.00	44.24
								150		- · 		

	5	ATOM	509	CB	LEU	A	370	22.980	-17.173	4.110	1.00	41.42
		ATOM	510	eg .	LEU	A	370	23.404	-16.015	5.014	1.00	41.45
		ATOM	511	CD1	LEU	A	370	22.219		5.245	1.00	42.25
		MOTA	512	CD2	LEU	A	370	23.931		6.332	1.00	38.35
							370			3.013	1.00	44.03
	10	ATOM	513	C	LEU	A		23.449				
	10	ATOM	514	0	LEU	A	370	23.773		1.829	1.00	43.63
		ATOM	515	N	THR	A	371	22.593		3.575	1.00	44.29
		ATOM	516	CA	THR	A	371	21.968	-21.272	2.806	1.00	44.84
		MOTA	517	CB	THR	A	371	21.293	-22.302	3.730	1.00	45.65
		ATOM	518	OG1	THR	A	371	20.262	-21.663	4.495	1.00	46.43
	15	ATOM	519	CG2	THR	A	371		-22.903	4.677	1.00	46.48
		ATOM	520	C	THR	A	371		-20.684		1.00	44.93
												-
		ATOM	521	0	THR	A	371		-19.585	2.092	1.00	44.36
		ATOM	522	N	LEU	A	372		-21.418	0.804	1.00	43.83
		ATOM	523	CA	LEU	A	372		-20.971		1.00	44.62
	20	ATOM	524	CB.	LEU	A	372	19.407	-22.043	-1.237	1.00	47.17
		MOTA	525	CG	LEU	Α	372	18.512	-21.690	-2.429	1.00	46.91
		MOTA	526	CD1	LEU	A	372	19.005	-20.417	-3.098	1.00	48.73
		ATOM	527	CD2	LEU	A	372	· · · · · · · · · · · · · · · · · · ·	-22.844		1.00	51.12
		ATOM	528	C	LEU	A	372		-20.644		1.00	44.84
	25	ATOM	529	ō	LEU	A	372	17.705		0.261	1.00	43.25
	23											
Ş		ATOM	530	N	HIS	A	373		-21.558		1.00	43.14
ΙŲ		ATOM	531	CA	HIS	Α	373	16.599		2.100	1.00	42.23
Œ		ATOM	532	CB	HIS	A	373	16.318		3.062	1.00	45.38
! -		MOTA	533	CG	HIS	A	373	15.114	-22.315	3.934	1.00	51.43
****	30	ATOM	534	CD2	HIS	A	373	13.808	-22.621	3.743	1.00	54.99
1-		ATOM	535	ND1	HIS	A	373	15.187	-21.716	5.174	1.00	54.26
· wall		ATOM	536	CE1	HIS	A	373		-21.663	5.709	1.00	53.77
71		ATOM	537	NE2	HIS	A	373		-22.206	4.861	1.00	55.27
		ATOM	538	C	HIS	A	373		-20.047	2.885	1.00	39.78
	35	ATOM	539	0	HIS		373		-19.324		1.00	
ΙΨ	33					A				2.971		37.71
IJ		ATOM	540	N	ASP	A	374		-19.738	3.440	1.00	36.38
		MOTA	541	CA	ASP	A	374		-18.516	4.219	1.00	37.21
۱ ۵		ATOM	542	CB	ASP	A	374		-18.620	5.073	1.00	38.17
Ð		ATOM	543	CG	ASP	A	374	19.064	-19.425	6.344	1.00	41.47
	40	MOTA	544	OD1	ASP	A	374	17,896	-19.543	6.772	1.00	37.09
		ATOM	545	OD2	ASP	A	374	20.052	-19.940	6.912	1.00	44.40
		ATOM	546	С	ASP	A	374	18.083	-17.277	3.326	1.00	37.19
	•	ATOM	547	0	ASP	A	374		-16.208		1.00	38.13
		ATOM	548	N	GLN	A	375		-17.431		1.00	33.13
	45	ATOM	549	CA	GLN	A	375		-16.339		1.00	31.94
	4,5											
		ATOM	550	CB	GLN	A	375		-16.756		1.00	28.81
		ATOM	551	CG	GLN	A	375		-16.570	0.189	1.00	31.71
		ATOM	552	CD	GLN	A	375		-17.222		1.00	34.49
		ATOM	553	OE1	GLN	A	375	21.478	-17.267	-2.067	1.00	36.09
	50	ATOM	554	NE2	GLN	A	375	23.097	-17.736	-0.588	1.00	40.32
		MOTA	555	C	GLN	A	375	17.379	-16.009	0.730	1.00	31.50
		ATOM	556	0	GLN	A	375		-14.840	0.653		27.42
		ATOM	557	N	VAL	A	376		-17.056		1.00	30.38
		ATOM	558	CA	VAL	A	376		-16.907		1.00	33.50
	55											
	33	ATOM	559	CB	VAL	A	376		-18.286		1.00	30.57
		ATOM	560	CG1	VAL	A	376		-18.122		1.00	33.14
		MOTA	561	CG2	VAL	A	376		-18.952		1.00	30.79
		MOTA	562	C	VAL	A	376		-16.159	1.002	1.00	33.80
		ATOM	563	0	VAL	A	376	13.653	-15.237	0.661	1.00	34.89
	60	ATOM	564	N	HIS	A	377	14.500	-16.568	2.261	1.00	33.35
		ATOM	565	CA	HIS	A	377		-15.941	3.329	1.00	32.81
		ATOM	566	СВ	HIS	A	377		-16.694	4.644	1.00	35.24

	5	ATOM	567	CG	HIS	A	377	13.429	-15.989	5.851	1.00	40.15
		ATOM	568	CD2	HIS	A	377	14.054	-15.495	6.946	1.00	40.86
		ATOM	569	ND1	HIS	A	377	12.090		6.012	1.00	43.08
		ATOM	570	CE1	HIS	A	377	11.913		7.154	1.00	42.44
		ATOM	571	NE2	HIS	A	377	13.089		7.740	1.00	44.85
	10	ATOM	572	C	HIS	A	377	14.058		3.507	1.00	28.63
	10		573	0			377	13.158		3.613	1.00	29.20
		ATOM			HIS	A						
		ATOM	574	N	LEU	A	378	15.343		3.544	1.00	24.41
		MOTA	575	CA	LEU	A	378		-12.738	3.721	1.00	23.21
		ATOM	576	CB	LEU	A	378		-12.650	3.743	1.00	20,98
	15	ATOM	577	CG	LEU	Ą	378		-13.190	5.016	1.00	24.22
		ATOM	578	CD1	LEU	A	378	19.471		4.924	1.00	21.07
		MOTA	579	CD2	LEU	A	378	17.431	-12.446	6.221	1.00	20.24
		MOTA	580	C	LEU	A	378	15.190	-11.827	2.630	1.00	24.78
		ATOM	581	0	LEU	A	378	14.638	-10.766	2.922	1.00	22.09
	20	ATOM	582	N	LEU	A	379	15.321	-12.242	1.374	1.00	24.13
		ATOM	583	CA	LEU	A	379	14.812	-11.447	0.262	1.00	25.02
		ATOM	584	СВ	LEU	A	379	15.307		-1.062	1.00	27.12
		ATOM	585	CG	LEU	A	379	16.724			1.00	24.39
		ATOM	586	CD1	LEU	A	379	17.299			1.00	27.58
15	25	ATOM	587	CD2	LEU	A	379	16.679			1.00	29.05
Ö	23	ATOM	588	C	LEU	A	379	13.287		0.246	1.00	27.61
íŰ		ATOM	589	0	LEU	A	379	12.726			1.00	26.16
Ü								12.726				
		ATOM	590	N	GLU	A	380			0.576	1.00	25.65
	20	MOTA	591	CA	GLU	A	380	11.154		0.592	1.00	26.85
'~	30	MOTA	592	CB	GLU	A	380	10.640		0.871	1.00	29.38
-		ATOM	593	CG	GLU	A	380	10.718			1.00	35.58
.1		MOTA	594	CD	GLU	A	380	10.228			1.00	39.31
1		MOTA	595	OE1	GLU	A	380		-17.008		1.00	42.89
		ATOM	596	OE2	GLU	A	380		-16.478	1.153	1.00	39.45
الدا	35	ATOM	597	С	GLU	A	380	10.604	-11.526	1.649	1.00	25.43
لدأ		ATOM	598	0	GLU	A	380	9.551	-10.925	1.469	1.00	27.75
		ATOM	599	N	CYS	A	381	11.324	-11.400	2.753	1.00	25.57
ıΩ		MOTA	600	CA	CYS	A	381	10.907	-10.530	3.843	1.00	26.46
Ō		ATOM	601	CB	CYS	A	381	11.570	-11.000	5.149	1.00	31.46
~	40	ATOM	602	SG	CYS	A	381	11.305	-9.946	6.623	1.00	45.32
		ATOM	603	С	CYS	A	381	11.262	-9.059	3.589	1.00	24.77
		ATOM	604	0	CYS	A	381	10.516	-8.166		1.00	25.01
		ATOM	605	N	ALA	A	382	12.377	-8.815	2.903	1.00	22.23
		ATOM	606	CA	ALA	A	382	12.855	-7.449		1.00	21.83
	45	ATOM	607	CB	ALA	A	382	14.319	-7.383	3.095	1.00	21.56
		ATOM	608	C	ALA	A	382	12.705	-6.778	1.311	1.00	19.78
		ATOM	609	0	ALA		382	12.703	-5.587		1.00	
						A						17.01
		ATOM	610	N	TRP	A	383	12.261	-7.507		1.00	17.61
	50	MOTA	611	CA	TRP	A	383	12.164	-6.915		1.00	18.06
	50	ATOM	612	CB	TRP	A	383	11.580	-7.928		1.00	20.28
		MOTA	613	CG	TRP	A	383	10.105	-8.201		1.00	20.50
		ATOM	614	CD2	TRP	A	383	9.049	-7.509		1.00	22.48
		MOTA	615	CE2	TRP	A	383	7.836	-8.138		1.00	20.41
		MOTA	616	CE3	TRP	A	383	9.012	-6.420	-3.482	1.00	22.06
	55	MOTA	617	CD1	TRP	A	383	9.506	-9.189	-1,190	1.00	23.38
		ATOM	618	NE1	TRP	A	383	8.142	-9.159	-1.377	1.00	22.59
		ATOM	619	CZ2	TRP	A	383	6.598	-7.713		1.00	21.98
		ATOM	620	CZ3	TRP	A	383	7.780	-5.998		1.00	25.50
		ATOM	621	CH2	TRP	A	383	6.589	-6.647		1.00	23.11
	60	ATOM	622	C	TRP	A	383	11.448	-5.564		1.00	19.18
		ATOM	623	ō	TRP	A	383	11.972	-4.663		1.00	19.27
		ATOM	624	N	LEU	A	384	10.273	-5.396		1.00	18.32
			~ ~ ~			••		20.273	5.590	3.507		

	5	ATOM	625	CA	LEU	A	384	9.586	-4.118	-0.719	1.00	16.38
		ATOM	626	CB	LEU	A	384	8.125	-4.218	-0.258	1.00	16.79
		ATOM	627	CG	LEU	A	384	7.211	-3.013	-0.577	1.00	18.39
		ATOM	628	CD1	LEU	A	384	7.464	-2.485	-1,995	1.00	13.91
		ATOM	629	CD2	LEU	A	384	5.750	-3.432	-0.410	1.00	18.38
	10	ATOM	630	C	LEU	A	384	10.324	-3.027	0.051	1.00	18.80
		ATOM	631	0	LEU	A	384	10.334	-1.870		1.00	20.90
		ATOM	632	N	GLU	A	385	10.949	-3.404	1.163	1.00	18.61
		MOTA	633	CA	GLU	A	385	11.718	-2.462	1.970	1.00	19.58
		ATOM	634	CB	GLU	A	385	12.274	-3.154	3.213	1.00	17.43
	15	ATOM	635	CG	GLU	A	385	11.292	-3.237	4.357	1.00	22.92
	1.5	ATOM	636	CD	GLU	A	385	11.963	-3.676	5.640	1.00	25.83
		MOTA	637	OE1	GLU	A	385	12.431	-2.799	6,391	1.00	23.69
		MOTA	638	OE2	GLU	A	385	12.027	-4.897	5,889	1.00	27.64
		ATOM	639	C C	GLU	A	385	12.890	-1.934	1.156	1.00	19.46
	20	ATOM	640	0 .	GLU	A	385	13.206	-0.743	1.196	1.00	15.04
	20									0.431	1.00	13.32
		ATOM	641	N	ILE	A	386	13.539	-2.842			
		ATOM	642	CA	ILE	A	386	14.685	-2.484		1.00	15,01
		MOTA	643	CB	ILE	A	386	15.475	-3.763		1.00	17.43
	25	ATOM	644	CG2	ILE	A	386	16.544	-3.424		1.00	17.99
	25	ATOM	645	CG1	ILE	A	386	16.185	-4.338	0.432	1.00	20.31
D		ATOM	646	CD1	ILE	A	386	16.682	-5.766	0.284	1.00	23.97
IU		ATOM	647	C	ILE	A	386	14.273	-1.645		1.00	16.10
Ø		ATOM	648	0	ILE	A	386	14.993	-0.7,24		1.00	17.42
ė	20	ATOM	649	N	LEU	A	387	13.112	-1.944		1.00	17.61
, F.	30	ATOM	650	CA	LEU	A	387	12.620	-1.173		1.00	18.20
<u></u>		ATOM	651	CB	LEU	A	387	11.359	-1.814		1.00	17.51
1.4		ATOM	652	CG	LEU	A	387	11.519	-3.064		1.00	26.37
#I		ATOM	653	CD1	LEU	A	387	10.173	-3.406		1.00	24.63
	3.0	ATOM	654	CD2	LEU	A	387	12.589	-2.824		1.00	21.58
(L)	35	ATOM	655	C	LEU	A	387	12.283		-2.838	1.00	17.60
(id		ATOM	656	0	LEU	A	387	12.571		-3,530	1.00	17,15
		ATOM	657	N	MET	A	388	11.677		-1.660	1.00	17.65
		ATOM	658	CA	MET	A	388	11.286		-1,121	1.00	18.49
۵	40	ATOM	659	CB	MET	A	388	10.302	1.460	0.034	1.00	19.65
	40	ATOM	660	CG	MET	A	388	8.893		-0.435	1.00	15.12
		ATOM	661	SD	MET	A	388	7.744	0.769	0.910	1.00	18.73
		ATOM	662	CE	MET	A	388	6.163		0.048		
		ATOM	663	С	MET	A	388	12.451		-0.691	1.00	22.62
	4.5	MOTA	664	0	MET	A	388	12.417		-0.928	1.00	22.49
	45	ATOM	665	N	ILE	A	389	13.482		-0.064	1.00	21.45
		ATOM	666	CA	ILE	A	389	14.604	2.831	0.331	1.00	18.54
		ATOM	667 [.]	CB	ILE	A	389	15.590	2.108	1.299	1.00	19.35
		ATOM	668	CG2	ILE	A	389	16.362	0.998	0.578	1.00	15.50
		MOTA	669	CG1	ILE	A	389	16.556	3.142	1.889	1.00	21.95
	50	ATOM	670	CD1	ILE	Α	389	17.373	2.658	3.080	1.00	15.86
		ATOM	671	C	ILE	A	389	15.333	3.322	-0.922	1.00	18.67
		ATOM	672	0	ILE	A	389	15,813	4.453	-0.970	1.00	19.75
		MOTA	673	N	GLY	A	390	15.410	2.477	-1.943	1.00	20.58
		MOTA	674	CA	GLY	A	390	16.049	2.895	-3.183	1.00	19.33
	55	MOTA	675	C	GĻY	Α	390	15.243	4.021	-3.819	1.00	17.48
		ATOM	676	0	GLY	A	390	15.801	4.994	-4.318	1.00	21.87
		MOTA	677	N	LEU	A	391	13.920	3.888	~3.787	1.00	19.17
		ATOM	678	CA	LEU	Α	391	13.018	4.887	-4.343	1.00	21.50
		ATOM	679	CB	LEU	A	391	11.561		-4.194	1.00	18.25
	60	ATOM	680	CG	LEU	A	391	10.480	5.497	-4.342	1.00	21.98
		ATOM	681	CD1	LEU	A	391	10.579	6.156	-5.725	1.00	21.39
		MOTA	682	CD2	LEU	A	391	9.115		-4.148	1.00	17.15
								1.61				

	5	ATOM	683	C	LEU	Α	391	13.208	6.216 -3.620	1.00	23.27
		ATOM	684	0	LEU	A	391	13.440	7.255 -4.243	1.00	23.60
		ATOM	685	N	VAL	A	392	13.122	6.170 -2,295	1.00	23.04
		ATOM	686	CA	VAL	A	392	13.282	7.357 -1.469	1.00	24.42
		ATOM	687	CB	VAL	A	392	13.186	6.993 0.042	1.00	27.38
	10	ATOM	688	CG1	VAL	A	392	13.733	8.129 0.897	1.00	30.37
	••	MOTA	689	CG2	VAL	A	392	11.739	6.712 0.414	1.00	23.48
		ATOM	690	C	VAL	A	392	14.626	8.014 -1.754	1.00	27.55
		ATOM	691	0	VAL	A	392	14.728	9.242 -1.832	1.00	27.50
									7.186 -1.924		23.65
	16	ATOM	692	N	TRP	A	393	15.652		1.00	
	15	MOTA	693	CA	TRP	A	393	16.999	7.670 -2.204		24.76
		MOTA	694	CB	TRP	A	393	17.977	6.491 -2,199		22.86
		ATOM	695	CG	TRP	Ą	393	19.287	6.784 -2.857	1.00	25.90
		ATOM	696	CD2	TRP	A	393	20.341	7.605 -2.339	1.00	28.09
		atom	697	CE2	TRP	A	393	21.375	7,612 -3.302	1.00	29.94
	20	MOTA	698	CE3	TRP	A	393	20.512	8.335 -1.154	1.00	30.20
		MOTA	699	CD1	TRP	A	393	19.710	6.339 -4.077	1,00	26.55
		ATOM	700	NE1	TRP	A	393	20.963	6.833 -4.351	1.00	30.64
		ATOM	701	CZ2	TRP	A	393	22.566	8.323 -3.120	1.00	32.43
		ATOM	702	CZ3	TRP	A	393	21.698	9.044 -0.971	1.00	34.58
(2)	25	ATOM	703	CH2	TRP	A	393	22.709	9.030 -1.950	1.00	36.54
		ATOM	704	C	TRP	A	393	17.082	8.414 -3.547	1.00	25.02
,Q		ATOM	705	0	TRP	A	393	17.767	9.435 -3.650	1.00	20.97
IU		ATOM	706	N	ARG	A	394	16.399	7.897 -4.568	1.00	23.06
i)			707	CA	ARG		394	16.412	8,531 -5.890	1.00	25.97
-	20	ATOM				A					
· • ·	30	ATOM	708	СВ	ARG	A	394	15.776	7.633 -6.965	1.00	24.05
1=		ATOM	709	CG	ARG	A	394	16.243	6.195 -7.024	1.00	26.05
أنوأ		ATOM	710	CD	ARG	Α	394	15.830	5.551 -8.352	1.00	22.70
E!		ATOM	711	NE	ARG	A	394	14.443	5.071 -8.363	1.00	20.71
	_4_0	MOTA	712	CZ	ARG	A	394	14.053	3.912 -7.841	1.00	21.26
لدا	35	MOTA	713	NH1	ARG	A	394	14.944	3.108 -7.267	1.00	20.09
Ш		ATOM	714	NH2	ARG	A	394	12.783	3.544 -7.907	1.00	21.26
		MOTA	715	C	ARG	A	394	15.622	9.833 -5.879	1.00	23.40
		MOTA	716	0	ARG	A	394	15.889	10.729 -6.677	1.00	28.61
Ü		ATOM	717	N	SER	A	395	14.638	9.924 -4.988	1.00	26.65
` 64	40	ATOM	718	CA	SER	A	395	13.776	11.104 -4.902	1.00	27.46
		ATOM	719	CB	SER	A	395	12.395	10.696 -4.382	1.00	26.70
		ATOM	720	OG	SER	A	395	11.916	9.530 -5.029		22.95
		ATOM	721	C	SER	A	395	14.316	12.240 -4.033	1.00	31.45
		ATOM	722	ō	SER	A	395	13.726	13.324 -3.977	1.60	28.11
	45	ATOM	723	N	MET	A	396	15.437	11.986 -3.368	1.00	33.83
	43	ATOM	724		MET		396	16.061	12.954 -2.475	1.00	
				CA		A			,		38.83
		ATOM	725	CB	MET	A	396	17,466	12.483 -2.112	1.00	39.47
		ATOM	726	CG	MET	A	396	17.585	11.919 -0.715	1.00	41.37
	50	ATOM	727	SD	MET	A	396	19.192	12.262 0.004	1.00	42.20
	50	MOTA	728	CE	MET	A	396	20.263	11.996 -1.404	1.00	42.84
		ATOM	729	C	MET	A	396	16.143	14.376 -3.018	1.00	40.69
		ATOM	730	0	MET	A	396	15.637	15.316 -2.403	1.00	38.85
		ATOM	731	N	GLU	A	397	16.794	14.526 -4.166	1.00	42.19
		MOTA	732	CA	GLU	A	397	16.971	15.831 -4.790	1.00	44.80
	55	ATOM	733	CB	GLU	Α	397	18.184	15.785 -5.729	1.00	46.02
		ATOM	734	CG	GLU	A	397	17.883	15.189 -7.096	1.00	54.42
		ATOM	735	CD	GLU	A	397	19.117	14.665 -7.810	1.00	59.40
		ATOM	736	OE1	GLU	A	397	19.219	13.430 -7.990	1.00	60.63
		ATOM	737	OE2	GLU	A	397	19.980	15.485 -8.196	1.00	62.71
	60	ATOM	738	C	GLU	A	397	15.735	16.322 -5.554	1.00	42.94
		ATOM	739	0	GLU	A	397	15.735	17.229 -6.376	1.00	44.68
		ATOM	740	И	HIS	A	398	14.579	15.728 -5.280		
		WI OW	/410	7.4	n15	A	370	14.579	13.740 -5.280	1.00	40.82

	5	ATOM	741	CA	HIS	A	398	13.342	16.118 -5.950	1.00	39.21
		ATOM	742	CB	HIS	A	398	12.924	15.043 -6.956	1.00	39.05
		MOTA	743	CG	HIS	A	398	13.870	14.886 -8.104	1.00	41.57
		ATOM	744	CD2	HIS	A	398	13.904	15.484 -9.318	1.00	39.28
		MOTA	745	ND1	HIS	A	398	14.940	14.017 -8.074	1.00	41.85
	10	ATOM	746	CE1	HIS	Ā	398	15.592	14.086 -9.220	1.00	40.88
	10										
		MOTA	747	NE2	HIS	A	398	14.985	14.969 -9.993	1.00	42.30
		MOTA	748	C	HIS	A	398	12.216	16.332 -4.944	1.00	37.04
		MOTA	749	0	HIS	A	398	11.282	15.535 -4.864	1.00	36.51
		ATOM	750	N	PRO	A	399	12.283	17.427 -4.171	1.00	39.19
	15	MOTA	751	CD	PRO	A	399	13.328	18.467 -4.198	1.00	35.36
		ATOM	752	CA	PRO	A	399	11.243	17.709 -3.173	1.00	37,10
		ATOM	753	CB	PRO	A	399	11.603	19.101 -2.654	1.00	37.86
		ATOM	754	CG	PRO	A	399	13.050	19.267 -2.963	1.00	35.83
		ATOM	755	C	PRO	A	399	9.828	17.663 -3.744	1.00	37.02
	20										
	20	ATOM	756	0	PRO	A	399	9.554	18.249 -4.789	1.00	38.52
	•	ATOM	757	N	GLY	A	400	8.938	16.954 -3.057	1.00	33.58
		ATOM	758	CA	GLŸ	A	400	7.559	16.865,-3.503	1.00	32.12
		MOTA	759	C	GLY	A	400	7.230	15.706 -4.428	1.00	32.43
		MOTA	760	0	GLY	A	400	6.063	15.344 -4.574	1.00	33.21
	25	MOTA	761	N	LYS	A	401	8.237	15.112 -5.055	1.00	31.35
Ö		ATOM	762	CA	LYS	A	401	7.972	14.007 -5.966	1.00	30.75
ľ		ATOM	763	CB	LYS	A	401	8.235	14.430 -7.415	1.00	35.43
ŭ		ATOM	764	CG	LYS	A	401	8.130	15.927 -7.675	1.00	35.15
		ATOM	765	CD	LYS	A	401	9.096	16.353 -8.774	1.00	36.88
<u> </u> =	20										
4	30	MOTA	766	CE	LYS	A	401	8.733	17.721 -9.331	1.00	36.71
-		ATOM	767	NZ	LYS	A	401	7.295	18.027 -9.116	1.00	34.22
		ATOM	768	C	LYS	A	401	8.768	12.746 -5.677	1.00	30.97
61		MOTA	769	0	LYS	A	401	9.809	12.776 ~5.006	1.00	27.60
		AŢOM	770	N	LEU	A	402	8.256	11.635 -6.197	1.00	27.28
لدا	35	ATOM	771	CA	LEU	A	402	8.889	10.334 -6.050	1.00	29.07
لدا		ATOM	772	CB	LEU	A	402	7.866	9.294 -5.590	1.00	22.55
		ATOM	773	CG	LEU	A	402	7.265	9.555 -4.207	1.00	24.94
Ğ		ATOM	774	CD1	LEU	A	402	6.126	8.583 -3.937	1.00	19.32
		ATOM	775	CD2	LEU	A	402	8.355	9.416 -3.157	1.00	21.54
Ð	40	ATOM	776	C	LEU	A	402	9.448	9.948 -7.414	1.00	28.78
	40						402		9.836 -8.389	1.00	29.98
		ATOM	777	0	LEU	A		8.704			
		ATOM	778	N	LEU	A	403	10.761	9.770 -7.487	1.00	27.57
		MOTA	779	CA	LEU	A	403	11.393	9.400 -8.744	1.00	27.17
		ATOM	780	CB	LEU	A	403	12.825	9.937 -8,816	1.00	26.95
	45	MOTA	781	CG	LEU	A	403	13.401	10.027-10.238	1.00	30.42
		ATOM	782	CD1	LEU	A	403	14.519	11.046-10.288	1.00	30.76
		ATOM	783	CD2	LEU	A	403	13.915	8.665-10.676	1.00	33.11
		MOTA	784	С	LEU	A	403	11.419	7.891 -8.901	1.00	24.78
		ATOM	785	0	LEU	A	403	12.428	7.257 -8.619	1.00	24.68
•	50	ATOM	786	N	PHE	A	404	10.306	7.319 -9.344	1.00	23.11
	50	ATOM	787	CA	PHE	A	404	10.239	5.881 -9.546	1.00	26.93
							404				
		ATOM	788	CB	PHE	A		8.826	5.470 -9.946	1.00	27.04
		MOTA	789	CG	PHE	A	404	7.850	5.513 -8.816	1.00	27.89
		ATOM	790	CD1	PHE	Α	404	7.028	6.623 -8.631	1.00	26.20
	55	ATOM	791	CD2	PHE	Α	404	7.750	4.444 -7.925	1.00	23.10
		ATOM	792	CE1	PHE	Α	404	6.116	6.668 -7.573	1.00	25.29
		ATOM	793	CE2	PHE	Α	404	6.845	4.481 -6.870	1.00	21.01
		ATOM	794	CZ	PHE	A	404	6.026	5.595 -6.693	1.00	22.91
		ATOM	795	С	PHE	A	404	11.232	5.507-10.637	1.00	26.04
	60	ATOM	796	Ō	PHE	A	404	11.882	4.464-10.578	1.00	27.27
	_	ATOM	797	N	ALA	A	405	11.348	6.383-11.626	1.00	28.80
		ATOM	798	CA	ALA	A	405	12.271	6.195-12.740	1.00	29.21
		~1 O!"	, 50	~~	~~~	~	403	16.611	0.175-12.740	2.00	٠٠٠ ـ د د

	5	ATOM	799	CB	ALA	A	405	11.650	5.287-13.806	1.00	26.89
		ATOM	800	C	ALA	A	405	12.549	7.578-13.317	1.00	30.23
		ATOM	801	0	ALA	A	405	11.770	8.508-13.109	1.00	27.38
		ATOM	802	N	PRO	A	406	13.672	7.737-14.032	1.00	30.05
		ATOM	803	CD	PRO	A	406	14.712	6.745-14.352	1.00	26.31
	10	ATOM	804	CA	PRO	A	406	13.977	9.053-14.604	1.00	32.10
	10										
		MOTA	805	CB	PRO	A	406	15.232	8.800-15.438	1.00	31.28
		MOTA	806	CG	PRO	A	406	15.865	7.602-14.776	1.00	31.44
		MOTA	807	С	PRO	A	406	12.820	9.589-15.436	1.00	32.58
		ATOM	808	0	PRO	A	406	12.605	10.796-15.507	1.00	32.58
	15	ATOM	809	N	asn	A	407	12.063	8.690-16.053	1.00	32.86
		ATOM	810	CA	ASN	A	407	10.935	9.119-16.865	1.00	32.78
		ATOM	811	CB	ASN	Α	407	10.950	8.418-18.228	1.00	34.73
		ATOM	812	CG	ASN	A	407	10.884	6.907-18.121	1.00	35.37
		ATOM	813	OD1	ASN	A	407	11.189	6.317-17.077	1.00	30.24
	20										
	20	ATOM	814	ND2	ASN	A	407	10.486	6.268-19.215	1.00	34.08
		MOTA	815	C	ASN	A	407	9.605	8.901-16.166	1.00	34.90
		ATOM	816	0	ASN	A	407	8.549	8.897-16.798	1.00	36.09
		ATOM	817	N	LEU	A	408	9.660	8.724-14.851	1.00	33.56
		MOTA	818	CA	LEU	Α	408	8.452	8.544-14.061	1.00	35.59
	25	ATOM	819	CB	LEU	A	408	8.141	7.062-13.851	1.00	33.81
Ō		ATOM	820	CG	LEU	A	408	6.696	6.823-13.397	1.00	36.44
ΙŪ		ATOM	821	CD1	LEU	Α	408	5.746	7.479-14.390	1.00	34.14
1 U		ATOM	822	CD2	LEU	A	408	6.406	5.334-13.287	1.00	32.96
D		ATOM	823	C	LEU	A	408	8.607	9.245-12.717	1.00	38.03
-	30			0			408				36.38
المريا	30	ATOM	824		LEU	A		8.880	8.614-11.695	1.00	
		ATOM	825	N	LEU	A	409	8.441	10.563-12.741	1.00	37.87
••1		ATOM	826	CA	LEU	A	409	8.548	11.395-11.553	1.00	37.95
Ē!		ATOM	827	CB	LEU	A	409	9.373	12.636-11.877	1.00	39.52
		MOTA	828	CG	LEU	A	409	10.023	13.399-10.728	1.00	42.46
Į,	35	ATOM	829	CD1	LEU	А	409	11.100	12.547-10.082	1.00	43.24
		ATOM	830	CD2	LEU	A	409	10.614	14.691-11.266	1.00	46.05
DOODE		ATOM	831	C	LEU	A	409	7.132	11.792-11.163	1.00	37.13
اسد! جم.		ATOM	832	0	LEU	A	409	6.482	12.546-11.882	1.00	35.70
154		ATOM	833	N	LEU	A	410	6.654	11.284-10.030	1.00	35.29
1	40	MOTA	834	CA	LEU	A	410	5.297	11.576 -9.583	1.00	33.33
		ATOM	835	CB	LEU	A	410	4.503	10.277 -9.449	1.00	29.37
		ATOM	836	CG	LEU	A	410	4.645	9.238-10.560	1.00	32.75
								4.026			
		ATOM	837	CD1	LEU	A	410		7.925-10.104	1.00	29.16
	45	ATOM	838	CD2	LEU	A	410	3.958	9.744-11.819	1.00	30.70
	45	MOTA	839	C	LEU	A	410	5.207	12.332 -8.261	1.00	35.14
		ATOM	840	Q	LEU	A	410	6.078	12.214 -7.400	1.00	36.94
		MOTA	841	N	ASP	A	411	4.141	13.108 -8.105	1.00	34.76
		MOTA	842	CA	ASP	A	411	3.933	13.843 -6.873	1.00	35.40
		MOTA	843	CB	ASP	A	411	3.733	15.341 -7.144	1.00	40.02
	50	MOTA	844	CG	ASP	A	411	2.471	15.645 -7.928	1.00	41.32
		ATOM	845	OD1	ASP	A	411	1.570	14.785 -8.001	1.00	45.03
		ATOM	846	OD2	ASP	A	411	2.383	16.764 -8.474	1.00	45.01
		ATOM	847	C	ASP	Α	411	2.727	13.234 -6.179	1.00	36.10
			848	0	ASP		411	2.033		1.00	34.08
	55	ATOM				A			12.395 -6.762		
	J J	ATOM	849	N	ARG	A	412	2.480	13.647 -4.940	1.00	35.99
		ATOM	850	CA	ARG	A	412	1.375	13.099 -4.169	1.00	39.37
		ATOM	851	CB	ARG	A	412	1.260	13.824 -2.825	1.00	39.75
		MOTA	852	CG	ARG	A	412	0.562	15.168 -2.870	1.00	40.49
		ATOM	853	CD	ARG	A	412	0.454	15.736 -1.465	1.00	40.65
	60	MOTA	854	NE	ARG	A	412	-0.261	14.826 -0.577	1.00	37.48
		ATOM	855	CZ	ARG	A	412	-1.574	14.855 -0.384	1.00	42.84
		ATOM	856	NH1	ARG	A	412	-2.316	15.754 -1.024	1.00	40.82
								164			-

	5	ATOM	857	NH2	ARG	A	412	-2.150	13.986 0,438	1.00	38.32
		ATOM	858	C	ARG	A	412	0.034	13,108 -4.889	1.00	39.80
		ATOM	859	0	ARG	A	412	-0.775	12.201 -4.706	1.00	39.92
		ATOM	860	N	ASN	A	413	~0.198	14.119 -5.717	1.00	41.64
		ATOM	861	CA	ASN	A	413	-1.458	14.215 -6.440	1.00	43.19
	10	ATOM	862	CB	ASN	A	413	-1.518	15.533 -7.210	1.00	46.44
	10	ATOM	863	CG	ASN		413	-1.739	16.718 -6.299	1.00	47.86
						A					•
		ATOM	864	OD1	ASN	A	413	-2.376	16.594 -5.249	1.00	48.05
		MOTA	865	ND2	ASN	A	413	-1.213	17.876 -6.687	1.00	49.43
		ATOM	866	C	ASN	A	413	-1.673	13.044 -7.385	1.00	41.48
	15	ATOM	867	0	ASN	A	413	-2.792	12.567 -7.546	1.00	40.50
		MOTA	868	N	GLN	A	414	-0.600	12.577 -8.010	1.00	42.82
		ATOM	869	CA	GLN	A	414	-0.703	11.448 -8.925	1.00	44.73
		MOTA	870	CB	GLN	A	414	0,585	11.307 -9.741	1.00	47.52
		ATOM	871	CG	GLN	A	414	0.572	12.088-11.049	1.00	50.47
	20	ATOM	872	CD	GLN	A	414	1.914	12.713-11.375	1.00	53.91
		ATOM	873	OE1	GLN	A	414	2.591	13.257-10.501	1.00	53.68
		ATOM	874	NE2	GLN	A	414	2.309	12.637-12.641	1.00	56.91
		ATOM	875	C	GLN	A	414	-0.970	10.163 -8.141	1.00	43.21
		ATOM	876	Ö	GLN	A	414	-1.491	9.193 -8.682	1.00	42.33
/ 655	25	ATOM	877	И	GLY	A	415	-0.618	10.168 -6.860	1.00	41.97
	23							-0.836			
\O		ATOM	878	CA.	GLY	A	415		8.992 -6.040	1.00	40.43
U		ATOM	879	С	GLY	A	415	-2.306	8.720 -5.804	1.00	40.80
(I)		MOTA	880	0	GLY	A	415	-2.696	7.601 -5.472	1.00	37.83
de		ATOM	881	N	LYS	A	416	-3.129	9.748 -5.978	1.00	42.16
١٠٠٠	30	MOTA	882	CA	LYS	A	416	-4.566	9.613 -5.779	1.00	44.34
		ATOM	883	CB	LYS	A	416	-5.212	10.996 -5.704	1.00	45.65
14		MOTA	884	CG	LYS	A	416	-4.761	11.819 -4.510	1.00	47.42
21		ATOM	885	CD	LYS	A	416	-4.910	13.309 -4.777	1.00	50.97
		MOTA	886	CE	LYS	A	416	-5.992	13.924 -3.898	1.00	53.25
ij	35	ATOM	887	NZ	LYS	A	416	-5.416	14.764 -2.809	1.00	56.95
لزا		MOTA	888	C	LYS	A	416	-5.227	8.793 -6.886	1.00	45.33
		ATOM	889	0	LYS	A	416	-6.339	8.299 -6.714	1.00	46.50
.≠		ATOM	890	N	CYS	A	417	-4.540	8.648 -8.015	1.00	45.18
Ü		ATOM	891	CA	CYS	A	417	-5.066	7.890 -9.148	1.00	46.25
Ü	40	ATOM	892	CB	CYS	A	417	-4.062	7.902-10.305	1.00	49.29
	. •	ATOM	893	SG	CYS	A	417	-3.916	9.493-11.168	1.00	49.59
		ATOM	894	C	CYS	A	417	-5.373	6.452 -8.752	1.00	47.18
							417	-6.220			
		ATOM	895	0	CYS	A			5.794 -9.359	1.00	46.50
	15	ATOM	896	N	VAL	A	418	-4.671	5.968 -7.731	1.00	45.07
	45	ATOM	897	CA	VAL	A	418	-4.866	4.612 -7.232	1.00	42.75
		ATOM	898	CB	VAL	A	418	-3.525	3.841 -7.206	1.00	42.45
		MOTA	899	CG1	VAL	Α	418	-3.670	2.563 -6.410	1.00	40.22
		ATOM	900	CG2	VAL	A	418	-3.071	3.538 -8.634	1.00	38.03
		ATOM	901	C	VAL	Α	418	-5.441	4.714 -5.818	1.00	41.46
	50	MOTA	902	0	VAL	Α	418	-4.883	5.400 -4.963	1.00	42.08
		ATOM	903	N	GLU	A	419	-6.559	4.036 -5.579	1.00	40.95
		ATOM	904	CA	GLU	A	419	-7.223	4.073 -4.275	1.00	42.51
		MOTA	905	CB	GLU	A	419	-8.536	3.282 -4.333	1.00	44.52
		ATOM	906	CG	GLU	A	419	-9.010	2.751 -2.984	1.00	50.42
	55	ATOM	907	CD	GLU	A	419	-10.413	2.168 -3.035	1.00	54.38
		ATOM	908	OE1	GLU	A	419	-10.582	1.059 -3.590	1.00	54.09
		ATOM	909	OE2	GLU		419	-10.362	2.820 -2.516	1.00	57.90
						A N	419				
		ATOM	910	C	GLU	A		-6.370	3.552 -3.121	1.00	41.11
	60	ATOM	911	0	GLU	A	419	-5.955	2.393 -3.116	1.00	39.42
	60	ATOM	912	N	GLY	A	420	-6.129	4.419 -2.140	1.00	40.53
		ATOM	913	CA	GLY	A	420	-5.346	4.049 -0.973	1.00	37.61
		ATOM	914	С	GLY	Α	420	-3.854	4.258 -1.140	1.00	37.01

	5	ATOM	915	0	GLY	A	420	-3.088	4.105	-0.190	1.00	32.59
		ATOM	916	N	MET	A	421	-3.444	4.623	-2.350	1.00	36.21
		ATOM	917	CA	MET	A	421	-2.035		-2.656	1.00	36.02
		ATOM	918	CB	MET	A	421	-1.799		-4.160	1.00	32.84
		ATOM	919	CG	MET	A	421	-0.351		-4.617	1.00	35.82
	10					•						
	10	MOTA	920	SD	MET	A	421	0.806		-3.812	1.00	35.57
		MOTA	921	CE	MET	A	421	0.881		-5.005	1.00	32.51
		MOTA	922	C	MET	A	421	-1,474	6.180	-2.226	1.00	34.93
		ATOM	923	0	MET	A	421	-0.275	6.294	-1.985	1.00	35.17
		ATOM	924	N	VAL	A	422	-2.319	7.205	-2.118	1.00	33.97
	15	MOTA	925	CA	VAL	Α	422	-1.823	8.520	-1.708	1.00	31.29
		ATOM	926	CB	VAL	A	422	-2.927		-1.766	1.00	33.14
		ATOM	927	CG1	VAL	A	422	-3.823		-0.533	1.00	30.10
												30.08
		ATOM	928	CG2	VAL	A	422	-2.279	10.982		1.00	
	••	ATOM	929	C	VAL	A	422	-1.231		-0.296	1.00	32.64
	20	ATOM	930	0	VAL	A	422	-0.274	9.220	0.002	1.00	28.41
		ATOM	931	N	GLU	A	423	-1.803	7.670	0.571	1.00	31.53
		ATOM	932	CA	GLU	A	423	-1.311	7.558	1.935	1.00	35.99
		ATOM	933	CB	GLU	A	423	-2.190	6.594	2.737	1.00	40.37
		ATOM	934	CG	GLU	A	423	-3.588	7.129	3.043	1.00	49.41
122	25	ATOM	935	CD	GLU	A	423	-4.438	7.336	1.795	1.00	52.38
j	23	ATOM	936	OE1	GLU	A	423	-5.349	8.188	1.835	1.00	56.91
Û												
ľU		ATOM	937	OE2	GLU	A	423	-4.200	6.652	0.776	1.00	54.53
Ü		ATOM	938	C	GLU	A	423	0.127	7.043	1.886	1.00	34.83
ь		MOTA	939	0	GLU	A	423	1.007	7.552	2.581	1.00	31.85
اله.	30	MOTA	940	N	ILE	A	424	0.369	6.038	1.050	1.00	30.17
4		ATOM	941	CA	ILE	A	424	1.711	5.488	0.929	1.00	28.99
1		ATOM	942	CB	ILE	A	424	1.696	4.195	0.109	1.00	30.96
ii -		MOTA	943	CG2	ILE	Α	424	3.108	3.588	0.068	1.00	27.20
		MOTA	944	CG1	ILE	A	424	0.671	3,230	0.725	1,00	30.77
	35	ATOM	945	CD1	ILE	A	424	0.810	1.787	0.291	1.00	34.69
1,4,4	55	ATOM	946	C	ILE	A	424	2.700	6.483	0.312	1.00	28.21
				0	ILE		424	3.856	6,551	0.735	1.00	28.48
		ATOM	947			A						
٠įĎ		ATOM	948	N	PHE	A	425	2.253		-0.675	1.00	27.68
١Ď	40	ATOM	949	CA	PHE	A	425	3.119		-1.315	1.00	27.30
	40	ATOM	950	CB	PHE	A	425	2.381		-2.458	1.00	26.36
		ATOM	951	CG	PHE	A	425	2.538		-3.798	1.00	27.22
		ATOM	952	CD1	PHE	Α	425	2.619	9.050	-4.958	1.00	27.36
		ATOM	953	CD2	PHE	A	425	2.566	6.900	-3.905	1.00	27.89
		ATOM	954	CE1	PHE	A	425	2.721	8.443	-6.207	1.00	29.63
	45	ATOM	955	CE2	PHE	Α	425	2.668	6.282	-5.149	1.00	27.28
		ATOM	956	CZ	PHE	A	425	2.745		-6.303	1.00	27.63
		ATOM	957	C	PHE	A	425	3.591		-0.312	1.00	25.66
		ATOM	958	Ö	PHE	A	425	4.757		-0.328	1.00	26.33
	50	MOTA	959	N	ASP	A	426	2.680	9.746	0.552	1.00	27.92
	50	ATOM	960	CA	ASP	A	426	2.984	10.759		1.00	28.88
		ATOM	961	CB	ASP	A	426	1.721	11.102	2.369	1.00	32.58
		MOTA	962	CG	ASP	A	426	0.781	12.034	1.613	1.00	37.47
		ATOM	963	OD1	ASP	A	426	-0.432	12.039	1.925	1.00	37.72
		MOTA	964	OD2	ASP	A	426	1.253	12.758	0.710	1.00	36.35
	55	MOTA	965	С	ASP	A	426	4.071	10.278	2.532	1.00	26.96
		ATOM	966	0	ASP	Α	426	4.974	11.030	2.900	1.00	27.20
		ATOM	967	N	MET	Α	427	3.978	9.022	2.947	1.00	25.76
		ATOM	968	CA	MET	A	427	4.981	8.468	3.856	1.00	25.89
		ATOM	969	CB	MET		427	4.567	7.070	4.309	1.00	21.17
	60					A						
	00	ATOM	970	CG	MET	A	427	3.385	7.072	5.257	1.00	24.38
		ATOM	971	SD	MET	Α	427	3.153	5.489	6.080	1.00	34.32
		MOTA	972	CE	MET	A	427	2.173	4.637	4.910	1.00	21.03

							•					
	5	MOTA	973	С	MET	A	427	6.321	8.410	3.128	1.00	22.29
		MOTA	974	Ø	MET	A	427	7.363	8.760	3.689	1.00	22,19
		MOTA	975	N	LEU	A	428	6.285	7.985	1.869	1.00	21.75
	•	MOTA	976	CA	LEU	A	428	7.506	7.892	1.075	1.00	22.91
		MOTA	977	CB	LEU	A	428	7.202	7.252	-0.287	1.00	18.47
	10	ATOM	978	CG	LEU	A	428	6.910	5.747	-0.176	1.00	19.24
		ATOM	979	CDI	LEU	A	428	6.278	5.222	-1.468	1.00	16.82
		ATOM	980	CD2	LEU	A	428	8.204	5.010	0.131	1.00	16.23
		ATOM	981	С	LEU	A	428	8.148	9.269	0.902	1.00	23.98
		ATOM	982	ō	LEU	A	428	9.366	9.416	1.034	1.00	23.06
	15	ATOM	983	N	LEU	A	429	7.328	16.281	0.628	1.00	23.91
		ATOM	984	CA	LEU	A	429	7.837	11.642	0.462	1.00	26.29
		MOTA	985	CB	LEU	A	429	6.714	12.571		1.00	27.47
		ATOM	986	CG	LEU	A	429	6.331	12.411		1.00	30.78
		MOTA	987	CD1	LEU	A	429	5.022	13.139		1.00	34.75
	20	ATOM	988	CD2	LEU	A	429	7.449	12.952		1.00	31.96
	20				LEU	_		8.425				25.83
		MOTA	989	e		A	429		12.166	1.776	1.00	
		ATOM	990	0	LEU	A	429	9.482	12,808	1.793	1.00	26.42
		ATOM	991	N	ALA	A	430	7.734	11.890	2.877	1.00	26.45
/15%	25	MOTA	992	CA	ALA	A	430	8.201	12.333	4.185	1.00	26.11
	25	MOTA	993	CB	ALA	A	430	7.214	11.909	5.265	1.00	23.13
ø		ATOM	994	C	ALA	A	430	9.577	11.742	4.462	1.00	25.01
IU		ATOM	995	0	ALA	A	430	10.455	12.409	5.005	1.00	24.31
Ü		ATOM	996	N	THR	Α	431	9.767	10.486	4.074	1.00	25.25
i cari		MOTA	997	CA	THR	A	431	11.046	9.825	4.294	1.00	22.78
12	30	ATOM	998	CB	THR	A	431	10.973	8.323	3.962	1.00	21.36
ሔ		MOTA	999	OG1	THR	Ą	431	9.924	7.727	4.727	1.00	20.27
الما		MOTA	1000	CG2	THR	Α	431	12.291	7.633	4.299	1.00	19.99
Ei		MOTA	1001	C	THR	A	431	12.103	10.477	3.429	1.00	23.73
		ATOM	1002	0	THR	Α	431	13.234	10.667	3.868	1.00	19.60
لدا	35	ATOM	1003	N	SER	A	432	11.736	10.819	2.197	1.00	24.32
IJ		ATOM	1004	CA	SER	A	432	12.676	11.479	1.301	1.00	26,96
		ATOM	1005	ÇB	SER	A	432	12.067	11.650	-0.093	1.00	28.70
Ď		MOTA	1006	OG	SER	A	432	13.084	11.930	-1.039	1.00	33.42
Ü		ATOM	1007	C	SER	A	432	13.033	12.850	1.876	1.00	27.92
'ist	40	MOTA	1008	0	SER	Α	432	14.176	13.294	1.779	1.00	30.78
		MOTA	1009	N	SER	A	433	12.045	13.521	2.459	1.00	28.96
		ATOM	1010	CA	SER	A	433	12,269	14.824	3.076	1.00	34.21
		ATOM	1011	CB	SER	A	433	10.957	15.387	3.623	1.00	35.07
		ATOM	1012	OG	SER	A	433	10.175	15.961	2.591	1.00	42.38
	45	ATOM	1013	C	SER	A	433	13.263	14.644	4.223	1.00	33.43
		ATOM	1014	0	SER	A	433	14.152	15.473	4.429	1.00	31.94
		ATOM	1015	N	ARG	A	434	13.105	13.545	4.959	1.00	31.32
		ATOM	1016	CA	ARG	A	434	13.980	13.236	6.086	1.00	29.78
		ATOM	1017	CB	ARG	A	434	13.468	11.994	6.819	1.00	29.84
	50	ATOM	1018	CG	ARG	A	434	14.331	11.541	7.983	1.00	32.17
	-	ATOM		CD	ARG	A	434	14.626	12.672	8.958	1.00	37.00
		ATOM		NE	ARG	A	434	15.321	12.169		1.00	39.44
		ATOM	1021	CZ	ARG	A	434	15.935	12.935		1.00	44.06
		ATOM		NH1	ARG	A	434	15.949	14.255		1.00	45.52
	55	ATOM		NH2	ARG	A	434	16.528	12.381		1.00	45.01
	33	ATOM		C	ARG	A	434	15.413	13.014	5.605	1.00	29.24
					ARG				13.563		1.00	29.72
		ATOM ATOM	1025	O N	PHE	A A	434 435	16.352 15.577	12.206	6.173 4.561	1.00	28.95
									12.206	4.000	1.00	30.59
	60	ATOM ATOM	1027 1028	CA CB	PHE PHE	A	435	16.901		2.758	1.00	32.03
	00	ATOM	1028	CB	PHE	A	435 435	16.777	11.045 9.563	3.051	1.00	32.03
		ATOM	1029		PHE	A A	435 435	16.795 16.758	9.563	4.359	1.00	35.60
		WI ON	1030	CDT	FNC	M	433	16.758	J. U04	¥.JJ9	1.00	33.00

	5	ATOM	1031	CD2	PHE	A	435	16.847	8.643	2,009	1.00	35.89
		ATOM	1032	CE1	PHE	A	435	16.771	7.709	4.622	1.00	35.36
		ATOM	1033	CE2	PHE	A	435	16.860	7.271	2.262	1.00	32.71
		ATOM	1034	CZ	PHE	A	435	16.821	6.807	3.570	1.00	33.24
		ATOM.	1035	C	PHE	A.	435	17.576	13.253	3.607	1.00	32.73
	10	ATOM	1036	0	PHE	A	435	18.763	13.464	3.871	1.00	31.16
	••	ATOM	1037	N	ARG	A	436	16.812	14.137	2.975	1.00	33.37
		MOTA	1038	CA	ARG	A	436	17.341	15.429	2.549	1.00	39.13
		MOTA	1039	CB	ARG	A	436	16.282	16.206	1.756	1.00	40.42
		ATOM	1040	CG	ARG	A	436	16.846	17.317	0.877	1.00	43.09
	15						436		17.960	0.040	1.00	44.53
	13	ATOM	1041	CD	ARG	A		15.750				
		ATOM	1042	NE	ARG	A	436	14.826	16.955		1.00	48.34
		ATOM	1043	CZ	ARG	A .	436	13.530	16.913		1.00	48.81
		ATOM	1044	NH1	ARG	A	436	12.997	17.823	0.619	1.00	47.80
	••	ATOM	1045	NH2	ARG	A	436	12.769	15.950		1.00	49.53
	20	ATOM	1046	С	ARG	A	436	17.792	16.250	3.753	1.00	38.10
		MOTA	1047	0	ARG	A	436	18.896	16.789	3.764	1.00	41.00
		ATOM	1048	N	MET	A	437	16.936	16.334	4.766	1.00	39.47
		MOTA	1049	CA	MET	A	437	17.257	17.087	5.975	1.00	38.20
		MOTA	1050	CB	MET	A	437	16.102	16.998	6.965	1.00	39.79
	25	MOTA	1051	Ç	MET	A	437	18.550	16.594	6.626	1.00	41.15
· Ø		ATOM	1052	0	MET	A	437	19.303	17.378	7.201	1.00	40.20
ľŪ		ATOM	1053	N	MET	A	438	18.804	15.285	6.538	1.00	39.65
ΙĎ		MOTA	1054	CA	MET	A	438	20.011	14.693	7.117	1.00	39.70
		MOTA	1055	ĊB	MET	A	438	19.787	13,221	7.463	1.00	39.90
الم	30	ATOM	1056	CG	MET	A	438	18.694	12.938	8.460	1.00	41.94
-L		ATOM	1057	SD	MET	A	438	18.747	11.188	8.880	1.00	43.12
1		ATOM	1058	CE	MET	A	438	20.374	11.064	9.619	1.00	43.73
_		ATOM	1059	C	MET	A	438	21.176	14.756	6.142	1.00	38.03
il (ma		ATOM	1060	Ö	MET	A	438	22.321	14.503	6.522	1.00	38.39
	•35	ATOM	1061	N	ASN	A	439	20.886	15.070	4.895	1.00	37.64
لدا	<i></i>	MOTA	1062	CA	ASN	A	439	21.924	15.118	3.895	1.00	35.68
		ATOM	1063	CB	ASN	A	439	23.019	16.125	4.243	1.00	40.98
		ATOM	1064	CG	ASN	A	439	23.933	16.407	3.090	1.00	45.09
Ď		ATOM	1065	0D1	ASN	A	439	23.528	16.295	1.934	1.00	47.16
Ū	40	ATOM	1066	ND2	ASN	A	439	25.197	16.733	3.372	1.00	46.87
	40	ATOM	1067	C	ASN	A	439	22.552	13.732	3.739	1.00	31.06
		ATOM	1068	0	ASN	A	439	23.764	13.581	3.649	1.00	29.54
		ATOM	1069	N	LEU	Ä	440	21.692	12.698	3.704	1.00	31.47
		ATOM	1070	CA	LEU	A	440	22.161	11.326	3.579	1.00	31.63
	45						440	20.991	10.344	3.380	1.00	33.05
	43	ATOM	1071	CB	LEU	A						
		ATOM	1072	CG	LEU	A	440	21.451	8.886	3.209	1.00	37.07
		ATOM	1073	CD1	LEU	A	440	21.957	8.353	4.546	1.00	36.18
		ATOM		CDS	LEU	A	440	20.318	8.032	2.682	1.00	32.33
	60	ATOM	1075	C	ĻEU	A	440	23.146	11.161	2.435	1.00	32.10
	50	ATOM	1076	0	LEU	A	440	22.925	11.671	1.333	1.00	32.76
		MOTA	1077	N	GLN	A	441	24.225	10.450	2.702	1.00	32.54
		ATOM	1078	CA	GLN	A	441	25.255	10.220	1.699	1.00	31.97
		ATOM	1079	CB	GLN	A	441	26.632	10.320	2.345	1.00	31.75
		ATOM	1080	CG	GLN	A	441	26.896	11.669	2.979	1.00	35.56
	55	MOTA	1081	CD	GLN	A	441	27.040	12.748	1.939	1.00	34.97
		MOTA	1082	OE1	GLN	A	441	27.985	12.782	1.167	1.00	35.51
		MOTA	1083	NE2	GLN	A	441	26.053	13.659	1.899	1.00	35.41
		ATOM	1084	C	GLN	A	441	25.100	8.860	1.038	1.00	34.08
		ATOM	1085	0	GLN	A	441	24.540	7.931	1.625	1.00	30.73
	60	ATOM	1086	N	GLY	A	442	25.608	8.752	-0.187	1.00	32.78
		ATOM	1087	CA	GLY	A	442	25.528	7.503	-0.921	1.00	32.91
		ATOM	1088		GLY	A	442	26.181		-0.184	1.00	31.87
			_		·			1.60	_			

	5	ATOM	1089	0	GLY	A	442	25.642	5.245	-0.154	1.00	33.18
		MOTA	1090	N	GLU	A	443	27.340	6.603	0.416	1.00	30.60
		MOTA	1091	CA	GLU	Ą	443	28.057	5.567	1.150	1.00	30.85
		ATOM	1092	CB	GLU	A	443	29.376	6.111	1.704	1.00	32.74
		ATOM	1093	CG	GLU.	A	443	30.425	6.378	0.646	1.00	36.30
	10	MOTA	1094	CD	GLU	A	443	30.310	7.770	0.066	1.00	40.92
		ATOM	1095	OE1	GĽŲ	A	443	29.677	8.630	0.716	1.00	42.27
		ATOM	1096	OE2	GLU	A	443	30.853	8.003	-1.038	1.00	46.82
		ATOM	1097	C	GLU	A	443	27.206	5.048	2,299	1.00	30.43
		ATOM	1098	0	GLU	A	443	27.211	3.854	2.595	1.00	28.11
	15	ATOM	1099	N	GLU	A	444	26.482	5.955	2.948	1.00	30.26
		ATOM .	1100	CA	GLU	A	444	25.619	5.589	4.067	1.00	28.18
		ATOM	1101	CB	GLU	A	444	25.147	6.843	4.797	1.00	26.32
		ATOM	1102	CG	GLU	A	444	26.250	7.633	5.463	1.00	29.27
		MOTA	1103	CD	GLU	A	444	25.748	8.944	6.023	1.00	29.62
	20	ATOM	1104	OE1	GLU	Α	444	25.006	9.652	5.304	1.00	32.00
		ATOM	1105	OE2	GLU	A	444	26.088	9.268	7,182	1.00	29.02
		ATOM	1106	C	GLU	Α	444	24.403	4.813	3.572	1.00	26.93
		ATOM	1107	0	GLU	A	444	23.970	3.841	4.191	1.00	24.78
		ATOM	1108	N	PHE	A	445	23,861	5,256	2.443	1.00	27.79
	25	MOTA	1109	CA	PHE	A	445	22.688	4.633	1.853	1.00	24.50
Ū		MOTA	1110	CB	PHE	A	445	22.254	5.416	0.610	1.00	25.40
IJ		ATOM	1111	CG	PHE	Α	445	21.372	4.634	-0.316	1.00	23.74
Ö		ATOM	1112	CD1	PHE	A	445	20.034	4.419	-0.004	1.00	23.00
=		ATOM	1113	CD2	PHE	A	445	21.885	4.094	-1.489	1.00	22.37
4	30	ATOM	1114	CEl	PHE	A	445	19.215	3.670	-0.855	1.00	22.57
1-4		ATOM	1115	CE2	PHE	A	445	21.079	3.349	-2.342	1.00	21.69
1		ATOM	1116	CZ	PHE	A	445	19.741	3.138	-2.023	1.00	22.25
EI -		ATOM	1117	С	PHE	Α	445	22.913	3.169	1.489	1.00	22.81
		ATOM	1118	0	PHE	A	445	22.083	2.316	1.796	1.00	22.92
Ĺ	35	ATOM	1119	N	VAL	A	446	24.019	2.868	0.822	1.00	22.46
ũ		ATOM	1120	CA	LAV	A	446	24.278	1.481	0.447	1.00	22.26
		ATOM	1121	CB	VAL	A	446	25.522	1.360	-0.465	1.00	22.87
Ü		ATOM	1122	CG1	VAL	A	446	25.251	2.046	-1.799	1.00	22.57
1		ATOM	1123	CG2	VAL	Α	446	26.735	1.968	0.217	1.00	22.38
: L.	40	ATOM	1124	C	VAL	A	446	24.467	0.614	1.694	1.00	23.68
		MOTA	1125	0	VAL	A	446	24.177	-0.586	1.680	1.00	22.91
		ATOM	1126	N	CYS	A	447	24,962	1.223	2.770	1.00	22.02
		ATOM	1127	CA	CYS	A	447	25.155	0.503	4.025	1.00	24.17
		ATOM	1128	CB	CYS	A	447	25.953	1.359	5.011	1.00	23.95
	45	ATOM	1129	SG	CYS	A	447	27.738	1.324	4.731	1.00	28.57
		ATOM	1130	C	CYS	A	447	23.781	0.178	4.618	1.00	21,14
		ATOM	1131	0	CYS	A	447	23.512	-0.960	5.002	1.00	19.37
		ATOM	1132	N	LEU	A	448	22.915	1.186	4.680	1.00	19.28
		ATOM	1133	CA	LEU	A	448	21.568	1.002	5.219	1.00	21.31
	50	ATOM	1134	CB	LEU	A	448	20.803	2.324	5.207	1.00	21.90
		ATOM	1135	CG	LEU	A	448	21.142	3.337	6.303	1.00	26.61
		MOTA		CD1	LEU	Α	448	20.328	4.594	6.072	1.00	27.74
		MOTA		CD2	LEU	A	448	20.827	2.760	7.672	1.00	24.03
		ATOM	1138	С	LEU	A	448	20.766	-0.038	4.442	1.00	21.72
	55	ATOM		0	LEU	A	448	20.006	-0.803	5.030	1.00	20.87
		ATOM		N	LYS	Α	449	20.929	-0.055	3.119	1.00	21.42
		ATOM		CA	LYS	A	449	20,205	-0.997		1.00	20.98
		ATOM		CB	LYS	A	449	20.440	-0.659		1.00	21.55
		ATOM	1143	CG	LYS	A	449	19.438	-1.297		1.00	24.82
	60	ATOM	1144	CD	LYS	A	449	19.456	-0.613		1.00	23.33
		ATOM		CE	LYS	A	449	20.816	-0.754		1.00	23.58
		ATOM	1146		LYS	A	449	20.741	-0.482		1.00	28.77

	5	ATOM	1147	С	LYS	Α	449	20.629	-2.436	2.548	1.00	20.33
		ATOM	1148	0	LYS	A	449	19.800	-3.345	2.552	1.00	20.57
		ATOM	1149	N	SER	A	450	21.924	-2.637	2.777	1.00	19.25
		ATOM	1150	CA	SER	A	450	22.451	-3.965	3.074	1.00	21.84
		MOTA	1151	CB	SER		450	23.982	-3.953	3.041	1.00	20.59
	10					A						
	10	MOTA	1152	OG	SER	A	450	24.460	-3.975	1.702	1.00	29.78
		MOTA	1153	C	SER	A	450	21.975	-4.408	4.454	1.00	21.58
		MOTA	1154	0	SER	A	450	21.728	-5.590	4.682	1.00	20.06
		MOTA	1155	N	ILE	A	451	21.853	-3.449	5.369	1.00	22.20
		ATOM	1156	CA	ILE	A	451	21.385	-3.741	6.726	1.00	22.82
	15	ATOM	1157	CB	ILE	A	451	21.452	-2.476	7.616	1.00	19.62
		ATOM	1158	CG2	ILE	A	451	20.593	-2.658	8.886	1.00	21.11
		ATOM	1159	CG1	ILE	A	451	22.909	-2.210	7.999	1.00	22.20
		MOTA	1160	CD1	ILE	A	451	23.115	-0.960	8.850	1.00	24.48
				C						6.662		21.82
	20	ATOM	1161		ILE	A	451	19.952	-4.250		1.00	
	20	ATOM	1162	0	ILE	A	451	19.575	-5.184	7.369	1.00	21.72
		ATOM	1163	N	ILE	A	452	19.152	-3.642	5.795	1.00	20.18
		MOTA	1164	CA	ILE	A	452	17.763	-4.058	5.649	1.00	18.13
		MOTA	1165	CB	ILE	A	452	17.024	-3.145	4.627	1.00	19.72
		ATOM	1166	CG2	ILE	A	452	15.720	-3.792	4.169	1.00	18.99
	25	ATOM	1167	CG1	ILE	A	452	16.725	-1.788	5.282	1.00	18.33
Ď		ATOM	1168	CD1	ILE	A	452	16.284	-0.707	4.306	1.00	23.25
ĨŪ		ATOM	1169	C	ILE	A	452	17.725	-5.517	5.191	1.00	19.50
Ľ		ATOM	1170	Ō	ILE	A	452	16.980	-6.340	5.737	1.00	17.60
		ATOM	1171	N	LEU	A	453	18.555	-5.844	4.209	1.00	19.23
	30	ATOM	1172	CA	LEU	A	453	18.589	-7.205	3.679	1.00	21.60
1	50				LEU							
#		ATOM	1173	CB		A	453	19.624	-7.316	2.554	1.00	21.50
'~!		MOTA	1174	CG	LEU	A	453	19.835	-8.729	1.989	1.00	25.06
5!		ATOM	1175	CD1	LEU	A	453	18.550	-9.250	1.364	1.00	25.27
		MOTA	1176	CD2	LEU	A	453	20.948	-8.694	0.953	1.00	24.73
L.	35	MOTA	1177	C	LEU	A	453	18.906	-8.245	4.746	1.00	19.41
لدا		MOTA	1178	0	LEU	A	453	18.198	-9.241	4.891	1.00	20.75
Ü		ATOM	1179	N	LEU	A	454	19.966	-7.997	5.499	1.00	21.35
		ATOM	1180	CA	LEU	A	454	20.410	-8.925	6.530	1.00	23.67
. #4		ATOM	1181	CB	LEU	A	454	21.870	-8.625	6.878	1.00	20.69
Ü	40	ATOM	1182	CG	LEU	A	454	22.816	-8.584	5.673	1.00	24.92
		ATOM	1183	CD1	LEU	A	454	24.222	-8.268	6.132	1.00	24.27
		ATOM	1184		LEU	A	454	22.785	-9.913			22.84
		ATOM	1185		LEU	A	454	19.572	-8.945	7.807	1.00	26.06
	45	ATOM	1186	0	LEU	A	454	19.413	-9.997		1.00	27.44
	45	MOTA	1187	N	ASN	A	455	19.011	-7.795	8.167	1.00	25.01
		ATOM	1188	CA	ASN	A	455	18.240	-7.681	9.400	1.00	26.10
		ATOM	1189	CB	ASN	A	455	18.439	-6.295		1.00	22.67
		ATOM	1190	CG	ASN	A	455	17.627	-6.109	11.264	1.00	26.67
		ATOM	1191	OD1	ASN	A	455	17.899	-6.751	12.270	1.00	25.16
	50	ATOM	1192	ND2	ASN	A	455	16.615	-5.246	11.212	1.00	20.73
		ATOM	1193	С	ASN	A	455	16.739	-7.957	9.418	1.00	25.78
		ATOM	1194	0	ASN	A	455	16.230	-8.516		1.00	29.22
		MOTA	1195	N	SER	A	456	16.027	-7.549	8.381	1.00	28.51
		ATOM		CA	SER	A	456	14.578	-7.704	8.371	1.00	32.52
	55	ATOM		CB	SER	A	456	14.019	-7.213	7.033	1.00	35.98
	<i>J J</i>											
		ATOM	1198	OG G	SER	A	456	14.266	-5.818	6.897	1.00	30.88
		ATOM	1199	C	SER	A	456	14.033	-9.086	8.711	1.00	33.00
		MOTA	1200	0	SER	A	456	13.112	-9.202	9.523	1.00	33.07
	<i></i>	ATOM	1201	N	GLY	A	457		-10.130	8.117	1.00	28.40
	60	MOTA	1202	CA	GLY	A	457	14.115	-11.464	8.413	1.00	36.28
		ATOM	1203	С	GLY	A	457	15.055	-12.289	9.277	1.00	40.41
		ATOM	1204	0	GLY	A	457	14.831	-13.486	9.456	1.00	38.20

	5	ATOM	1205	N	VAL	A	458	16.095	-11.657	9.820	1.00	44.13
		MOTA	1206	CA	VAL	A	458	17.079			1.00	51.09
		MOTA	1207	CB	VAL	A	458	18.214	-11,399		1.00	51.06
		MOTA	1208	CG1	VAL	A	458	17.688			1.00	51.75
		MOTA	1209	CG2	VAL	A	458		-12.199		1.00	50.65
	10	MOTA	1210	C	VAL	A	458		-13.060		1.00	57.26
		MOTA	1211	0	VAL	A	458	17.085	-14.045	12.356	1.00	58.77
		ATOM	1212	N	TYR	A	459	15.401	-12.560	12.416	1.00	62.31
		MOTA	1213	CA	TYR	A	459	14.793	-13.177	13.592	1.00	68.49
		MOTA	1214	CB	TYR	A	459	14.293	-12.100	14.560	1.00	70.46
	15	ATOM	1215	CG	TYR	A	459	15.396			1.00	71.73
		MOTA	1216	CD1	TYR	A	459	15.127		15.462	1.00	71.93
		MOTA	1217	CE1	TYR	A	459	16.147	-9.045	15.898	1.00	72.60
		ATOM	1218	CD2	TYR	A	459	16.716	-11.644	15.128	1.00	72.77
		ATOM	1219	CE2	TYR	A	459	17.741	-10,812	15.560	1.00	73.55
	20	MOTA	1220	CZ	TYR ·	A	459	17.450	-9.514	15.941	1.00	72.93
		ATOM	1221	OH	TYR	A	459	18.467	-8.687	16.351	1.00	74.56
		ATOM	1222	C	TYR	A	459	13.649	-14.097	13.187	1.00	71.86
		MOTA	1223	0	TYR	A	459	13,380	-15.099	13.852	1.00	73.11
		ATOM	1224	N	THR	A	460	12.981	-13.756	12.090	1.00	74.84
	25	ATOM	1225	CA	THR	A	460 ·	11.881	-14.567	11.589	1.00	77.66
Q		ATOM	1226	CB	THR	A	460		-13.900		1.00	76.69
IU.		ATOM	1227	C	THR	A	460		-15.938		1.00	80.26
Ü		ATOM	1228	0	THR	A	460		-16.866		1.00	80.82
-		ATOM	1229	N	PHE	A	461		-16.051		1.00	82.69
1	30	atom	1230	CA	PHE	A	461		-17.299		1.00	85.63
4		ATOM	1231	CB	PHE	A	461		-17.034		1.00	85.47
120		ATOM	1232	С	PHE	A	461		-18.288		1.00	87.52
li .		ATOM	1233	0	PHE	A	461		-17.940		1.00	86.53
		ATOM	1234	N	LEU	A	462		-19.520		1.00	89.49
IJ	35	ATOM	1235	CA	LEU	A	462		-20.568		1.00	91.34
ليا		ATOM	1236	CB	LEU	A	462		-21.741		1.00	91.23
		MOTA	1237	C	LEU	A	462		-21.060		1.00	92.05
Û		ATOM	1238	0	LEU	A	462		-21.165		1.00	91.91
Ū	40	ATOM	1239	N	SER	A	463		-21.357		1.00	92.53
	40	ATOM	1240	CA	SER	A	463		-21.855		1.00	92.96
•		ATOM	1241	CB	SER	A	463		-21.483		1.00	91.67
		ATOM	1242		SER	A	463		-23.371	•	1.00	93.39
		ATOM	1243		SER	A	463		-24.034		1.00	93.44
	45	ATOM		N	SER	A	464		-23.917		1.00	93.82
	45	ATOM	1245	CA	SER	A	464		-25.355		1.00	93.85
		ATOM	1246	CB	SER	A	464		-25.769		1.00	93.74
		MOTA	1247	C	SER	A	464		-25.743		1.00	93.96
		ATOM	1248	0	SER	A	464		-26.074		1.00	93.65
	50	ATOM	1249	'n	THR	A	465		-25.699		1.00	93.91
	50	ATOM	1250		THR	A	465		-26.036		1.00	93.79
		ATOM		CB	THR	A	465		-27.483		1.00	93.38
		MOTA	1252	C	THR	A	465		-25.085		1.00	93.27
		ATOM	1253	0	THR	A	465		-24.017		1.00	93.03
	66	ATOM		N	LEU	A	466		-25.479		1.00	93.26
	55	AŢOM		CA	LEU	A	466		-24.665		1.00	92.34
		ATOM	1256	CB	LEU	A	466		-25.338		1.00	91.59
		ATOM	1257	C	LEU	A	466		-24.461		1.00	92.18
		ATOM	1258	0	LEU	A	466		-23.545		1.00	92.67
	40	ATOM	1259	N	LYS	A	467		-25.323		1.00	91.28
	60	ATOM	1260	CA	LYS	A	467		-25.238		1.00	90.02
		ATOM	1261	СВ	LYS	A	467		-26.287		1.00	89.93
		ATOM	1262	C	LYS	A	467		-23.841	12.308	1.00	88.35
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	5	ATOM	1263	0	LYS	A	467	23.032	-22.990	11.849	1.00	88.50
		MOTA	1264	N	SER	A	468	20.981	-23.610	12.536	1.00	86.02
		ATOM	1265	CA	SER	A	468	20.384	-22.315	12.252	1.00	84.10
		ATOM	1266	CB	SER	A	468	18.901	-22.333	12.620	1.00	84.08
		MOTA	1267	OG	SER	A	468	18.229	-23.378	11.937	1.00	83.03
	10	ATOM	1268	C	SER	A	468	21.109	-21.230	13.040	1.00	83.39
		ATOM	1269	0	SER	A	468	21.264	-20.105	12.565	1.00	83.48
		MOTA	1270	N	LEU	A	469	21.558	-21.579	14.242	1.00	82.04
		ATOM	1271	CA	LEU	A	469	22.276	-20.640	15.098	1.00	80.28
		ATOM	1272	CB	LEU	Α	469	22.595	-21.294	16.436	1.00	79.81
	15	ATOM	1273	С	LEU	A	469	23.564	-20.174	14.419	1.00	79.18
		ATOM	1274	0	LEU	A	469	24.111	-19.122	14.756	1.00	78.61
		ATOM	1275	N	GLU	Α	470	24.044	-20.969	13.466	1.00	76.69
		ATOM	1276	CA	GLU	Α	470	25.256	-20.638	12,726	1.00	74.84
		ATOM	1277	CB	GLU	Α	470	25,803	-21.880	12,032	1.00	74.12
	20	ATOM	1278	С	GLU	Α	470	24.920	-19.565	11.697	1.00	73.77
		MOTA	1279	0	GLU	A	470	25.617	-18.556	11.581	1.00	72.94
		ATOM	1280	N	GLU	A	471	23.842	-19.792	10.953	1.00	72.08
		ATOM	1281	CA	GLU	Α	471	23.396	-18.842	9.945	1.00	70.05
		MOTA	1282	CB	GLU	A	471	22.461	-19.526	8.944	1.00	71.52
	25	ATOM	1283	CG	GLU	A	471	23.150	-19.976	7.668	1.00	72.90
Ü		ATOM	1284	CD	GLU	A	471	24.512	-20.586	7.932	1.00	74.01
IJ		ATOM	1285	OE1	GLU	A	471	25.469	-20.258	7.198	1.00	74.22
Ö		ATOM	1286	OE2	GLU	A	471	24.626	-21.395	8.878	1.00	75.18
		ATOM	1287	C	GLU	Α	471	22.667	-17.692	10.630	1.00	67.33
, <u>, </u>	30	ATOM	1288	0	GLU	A	471	21.685	-17.165	10.107	1.00	67.77
		ATOM	1289	N	LYS	Α	472	23.152	-17.319	11.811	1.00	62.63
· \		ATOM	1290	CA	LYS	Α	472	22.564	-16.229	12.578	1.00	57.41
		ATOM	1291	CB	LYS	Α	472	21.697	-16.777	13.713	1.00	58.74
5 i		ATOM	1292	CG	LYS	Α	472	20.683	-15.776	14.243	1.00	60.32
	35	ATOM	1293	CD	LYS	A	472	19.271	-16.342	14.219	1.00	60.73
W		ATOM	1294	CE	LYS	A	472	18,485	-15.909	15.449	1.00	61.78
لِيز		ATOM	1295	NZ	LYS	Α	472	19.352	-15.788	16.658	1.00	60.09
		ATOM	1296	С	LYS	A	472	23.662	-15.339	13.150	1.00	53.42
Ü		ATOM	1297	0	LYS	Α	472	23.631	-14.120	12.978	1.00	50.87
·Ū	40	ATOM	1298	N	ASP	A	473	24.628	-15.949	13.830	1.00	47.52
		ATOM	1299	CA	ASP	A	473	25.732	-15.194	14.405	1.00	45.55
		ATOM	1300	CB	ASP	Α	473	26.613	-16.094	15.269	1.00	50.48
		ATOM	1301	CG	ASP	A	473	26.380	-15.885	16.749	1.00	55.50
		ATOM	1302	OD1	ASP	A	473	25.272	-15.436	17.118	1.00	58.06
	45	ATOM	1303	OD2	ASP	Α	473	27.304	-16.170	17.541	1.00	59.81
		ATOM	1304	С	ASP	Α	473	26.557	-14.611	13.269	1.00	42.62
		ATOM	1305	0	ASP	A	473	27.087	-13.506	13.373	1.00	42.10
		ATOM	1306	N	HIS	Α	474	26.663	-15.364	12.180	1.00	38.05
		ATOM	1307	CA	HIS	Α	474	27.416	-14.904	11.026	1.00	37.25
	50	ATOM	1308	CB	HIS	Α	474	27.429	-15.978	9.941	1.00	35.07
		ATOM	1309	CG	HIS	A	474	28.036	-15.523	8.653	1.00	37.36
		ATOM	1310	CD2	HIS	A	474	29.292	-15.113	8.355	1.00	38.86
		ATOM	1311	ND1	HIS	A	474		-15.452	7.476	1.00	41.31
		ATOM	1312	CE1	HIS	A	474	28.110	-15.020	6.509	1.00	40.86
	55	MOTA	1313	NE2	HIS	A	474		-14.807		1.00	44.49
		ATOM	1314	С	HIS	A	474		-13.640		1.00	36.68
		ATOM	1315	0	HIS	A	474		-12.676		1.00	36.48
		ATOM		N	ILE	A	475		-13.652		1.00	35.93
		ATOM	1317	CA	ILE	A	475		-12.499	9.963	1.00	36.21
	60	ATOM	1318	CB	ILE	A	475		-12.797	9.868	1.00	36.31
		MOTA	1319		ILE	A	475		-11.527		1.00	38.19
		ATOM	1320		ILE	A	475		-13.874	8.813	1.00	36.97
					_			170				

	5	MOTA	1321	CD1	ILE	A	475	21.528	-14.454	8,869	1.00	35.59
		MOTA	1322	C	ILE	A	475	24.893	-11.322	10,907	1.00	35.34
		ATOM	1323	0	ILE	A	475	25.092	-10.189	10.471	1.00	33,20
		ATOM	1324	N	HIS	A	476	24.857	-11.596	12.206	1.00	35.95
		ATOM	1325	CA	HIS	A	476	25.031	-10.540	13.193	1.00	35.06
	10	ATOM	1326	CB	HIS	A	476		-11.062		1.00	37.30
		ATOM	1327	CG	HIS	A	476		-11.068		1.00	43.06
		MOTA	1328	CD2	HIS	A	476		-10.051		1.00	43.93
		MOTA	1329	ND1	HIS	A	476		-12.230		1.00	45.60
			-		HIS	A	476		-11.928		1.00	47.56
	15	MOTA	1330	CE1								
	13	MOTA	1331	NE2	HIS	A	476		-10.613		1.00	46.21
		MOTA	1332	c	HIS	A	476	26.438	•	13.170	1.00	35.40
		ATOM	1333	0	HIS	A	476	26.634		13.415	1.00	35.45
		MOTA	1334	N	ARG	A	477	27.420		•	1.00	34.07
		MOTA	1335	CA	ARG	A	477	28.796			1.00	34.18
	20	ATOM	1336	CB	ARG	A	477	29.757			1.00	41.04
		MOTA	1337	CG	ARG	A	477	29.800	-12.459	13.788	1.00	47.61
		ATOM .	1338	CD	ARC	A	477	30.782	-13.599	13.557	1.00	55.67
		ATOM	1339	NE	ARG	A	477	31.780	-13.675	14.622	1.00	60.17
		ATOM	1340	CZ	ARG	A	477	32.780	-12.811	14.770	1.00	61.98
	25	ATOM	1341	NH1	ARG	A	477	32.918	-11.803	13.918	1.00	64.29
Ø		ATOM	1342	NH2	ARG	A	477	33.643	-12.955	15.766	1.00	62.79
ΙŪ		ATOM	1343	C	ARG	A	477	28.906	-9.361	11.621	1.00	30.77
Ö		ATOM	1344	0	ARG	A	477	29.462		11.753	1.00	33.59
		ATOM	1345	N	VAL	A	478	28.369		10.475	1.00	27.65
1	30	ATOM	1346	CA	VAL	A	478	28.389	-8.930	9.280	1.00	27.07
		ATOM	1347	CB	VAL	A	478	27.658	-9.605	8.100	1.00	28.00
ļ=		ATOM	1348	CG1	VAL	A	478	27.672	-8.678	6.890	1.00	25.83
14		ATOM	1349	CG2	VAL	A	478	28.319		7,761	1.00	31.66
8! 4 673 0		ATOM	1350	C	VAL	A	478	27.689	-7.610	9.584	1.00	26.92
	35	ATOM	1351	0	VAL	A	478	28.216	-6.536	9.294	1,00	26.97
L.	55		1351	Ŋ	LEU	-	479			10.171		25.74
IJ		ATOM				A		26.499			1.00	
٦		ATOM	1353	CA	LEU	A	479	25.727		10.530	1.00	27.97
		ATOM	1354	CB	LEU	A	479	24.474		11.324	1.00	25.55
ű	40	ATOM	1355	CG	LEU	A	479	23.211		10.517	1.00	29.01
	40	ATOM	1356	CD1	LEU	A	479	22.056		11.481	1.00	27.05
		ATOM	1357	CD2	LEU	A	479	22.864	-6.063	9.584	1.00	24.92
		ATOM	1358	C	LEU	A	479	26.592		11.369	1.00	25.39
		ATOM		0	LEU	A	479	26.595		11.158	1.00	27.39
		MOTA	1360	N	ASP	A	480	27.324		12.320	1.00	26.04
	45	MOTA	1361	CA	ASP	Α	480	28.206	-5.388		1.00	27.32
		ATOM	1362	CB	ASP	Α	480	28.878	-6.305	14.222	1.00	26.67
		ATOM	1363	CG	ASP	A	480	27.990	-6.602	15.417	1.00	31.02
		ATOM	1364	OD1	ASP	A	480	28.355	-7.505	16.198	1.00	31.50
		ATOM	1365	OD2	ASP	A	480	26.935	-5.944	15.580	1.00	32.21
	50	ATOM	1366	С	ASP	A	480	29.283	-4.699	12.361	1.00	25.59
		ATOM	1367	0	ASP	A	480	29.672	-3.562	12.636	1.00	27.15
		ATOM	1368	N	LYS	A	481	29.767		11.340	1.00	25.17
		ATOM		CA	LYS	A	481	30.794		10.477	1.00	24.93
		ATOM		CB	LYS	A	481	31.306	•	9.512		28.42
	55	ATOM		CG	LYS	A	481	32.158		10.188	1.00	35.59
		ATOM		CD	LYS	A	481	32.894		9.157	1.00	
		ATOM		CE	LYS	A	481	33.883		8.350		41.48
		ATOM		NZ	LYS	A	481	34.954	-6.388		1.00	43.22
		ATOM		C	LYS	A	481	30.260	-3.635		1.00	26.12
	60	ATOM		_								
	00			O N	LYS	A	481	30.979	-2.657 -3.705		1.00	23.73
		ATOM	1377		ILE	A	482	28.996	-3.705		1.00	25.44
		ATOM	1378	CA	ILE	A	482	28.421	-2.598	8.545	1.00	27.69
								1.70				

	5	ATOM	1379	CB	ILE	A	482	27.066	-2.983	7.915	1.00	27.59
		MOTA	1380	CG2	ILE	A	482	26.470	-1.788	7.183	1.00	25.97
		ATOM	1381	CG1	ILE	A.	482	27.274	-4.131	6.922	1,00	23.80
		ATOM	1382	CD1	ILE	A	482	26.000	-4.838	6.533	1.00	21.30
		ATOM	1383	C	ILE	A	482	28.253	-1.408	9.481	1.00	27.33
	10	ATOM	1384	ō	ILE	A	482	28.312	-0.256	9.045	1.00	28.55
	. •	MOTA	1385	N	THR	A	483	28.046	-1.690		1.00	25.03
		ATOM	1305	CA	THR	A	483	27.905	-0.632		1.00	23.62
								27.535	-1.192		1.00	22.18
		MOTA	1387	CB	THR	A	483					
		MOŢA	1388	0G1	THR	A	483	26.181	-1.658		1.00	25.39
	15	ATOM	1389	CG2	THR	A	483	27.673	-0.111		1.00	25.84
		ATOM	1390	C	THR	A	483	29.257		11.858	1.00	23.04
		ATOM	1391	0	THR	A	483	29.331	1.306	11.846	1.00	23.55
		mota	1392	N	ASP	A	484	30.324	-0.714	11.960	1,00	22.24
		ATOM	1393	CA	ASP	A	484	31.674	-0.152	12.039	1.00	25.48
	20	ATOM	1394	CB	ASP	A	484	32.718	-1.273	12.107	1.00	26.88
		ATOM	1395	CG	ASP	A	484	32.629	-2.083	13.394	1.00	32.52
		ATOM	1396	OD1	ASP	A	484	32.002	-1.608		1.00	33.68
		ATOM	1397	OD2	ASP	A	484	33.185	-3.198		1.00	34.63
		ATOM	1398	C	ASP	A	484	31.930		10.807	1.00	25.16
	25		1399	0	ASP		484	32.481		10.905	1.00	26.05
	23	ATOM				A						
ů		ATOM	1400	N	THR	A	485	31.505	0.226	9.645	1.00	28.96
ľŲ		ATOM	1401	CA	THR	Α	485	31.689	0.960	8.394	1.00	26.63
Ü		ATOM	1402	CB	THR	A	485	31.124	0.166	7.197	1.00	26.12
-		ATOM	1403	OG1	THR	A	485	31.753	-1.123	7.132	1.00	24.30
i.	30	MOTA	1404	CG2	THR	A	485	31.381	0.907	5.898	1.00	23.31
±		MOTA	1405	C	THR	A	485	30.994	2.318	8.468	1.00	28.90
1		ATOM	1406	0	THR	A	485	31.583	3.354	8.137	1.00	27.26
		ATOM	1407	N	LEU	A	486	29.743	2.310	8.915	1.00	24,76
£)		ATOM	1408	CA	LEU	A	486	28.973	3.537	9.027	1.00	26.19
	35	ATOM	1409	CB	LEU	A	486	27.567	3.233	9.547	1.00	27.27
IJ		ATOM	1410	CG	LEU	A	486	26.508	2.921	8.486	1.00	23.50
ليرا		ATOM	1411	CD1	LEU	A	486	25.210	2.550	9.183	1.00	22.03
		ATOM	1412	CD2	LEU	Ā	486	26.309	4.128	7.577	1.00	21.35
١Ď										9.960	1.00	27.36
ıĎ	40	ATOM	1413	C	LEU	A	486	29.662	4.519			
_	40	MOTA	1414	0	LEU	A	486	29.745	5.710	9.669	1.00	25.87
		ATOM	1415	N	ILE	A	487	30.151		11.088	1.00	27.88
		MOTA	1416		ILE	A	487	30.843		12.055		28.40
		MOTA	1417		ILE	A	487	31.203		13.332	1.00	26.74
		ATOM	1418	CG2	ILE	A	487	32.255	4.803	14.154	1.00	27.54
	45	ATOM	1419	CG1	ILE	A	487	29.937	3.813	14.163	1.00	25.93
		ATOM	1420	CD1	ILE	A	487	29.237	5.088	14.624	1.00	23.42
		ATOM	1421	С	ILE	A	487	32.125	5.393	11.412	1.00	28.89
		ATOM	1422	0	ILE	A	487	32.497	6.554	11.602	1.00	29.85
		ATOM	1423	N	HIS	A	488	32.791		10.649	1.00	29.71
	50	ATOM	1424	CA	HIS	A	488	34.031	4.898	9.967	1.00	34.12
	50	ATOM	1425	CB	HIS	A	488	34.585	3.691	9.207	1.00	36.61
•		ATOM	1426	CG	HIS	A	488	35.799	3.997	8.385	1.00	42.74
		MOTA	1427	CD2	HIS	A	488	35.970	4.089	7.045	1.00	43.12
		ATOM	1428	ND1	HIS	A	488	37.034	4.239	8.946	1.00	43.13
	55	ATOM	1429	CE1	HIS	A	488	37.913	4.466	7.987	1.00	43.40
		ATOM		NE2	HIS	Α	488	37.293	4.381	6.825	1.00	45.63
		ATOM	1431	С	HIS	A	488	33.799	6.051	8.998	1.00	32.74
		ATOM	1432	0	HIS	A	488	34.577	7.004	8.955	1.00	31.06
		ATOM	1433	N	LEU	A	489	32.721	5.958	8.223	1.00	33.56
	60	ATOM		CA	LEU	Α	489	32.384	6.992	7.258	1.00	30.78
		ATOM		СВ	LEU	A	489	31.145	6.587	6.464	1.00	34.67
		ATOM	1436		LEU	A	489	31.310	5.353	5.574	1.00	34.73
			7470			~	-07	٠٠.٥١٠	J. JJJ	J.J/4	2.00	J-1. /J

	5	MOTA	1437	CD1	LEU	A	489	29.945	4.856 5.125	1.00	33.21
		ATOM'	1438	CD2	LEU	A	489	32.183	5.701 4.378	1.00	35.92
		ATOM	1439	С	LEU	A	489	32.124	8.320 7.954	1.00	33.97
		ATOM	1440	0	LEU	A	489	32.587	9.365 7.507	1.00	33.22
		ATOM	1441	N	MET	A	490	31.387	8.274 9.058	1.00	31.33
	10	ATOM	1442	CA	MET	A	490	31.056	9.482 9.801	1.00	30.61
		ATOM	1443	CB	MET	A	490	30.000	9.161 10.862	1.00	32.34
				CG		A	490	28.607	8.940 10.289	1.00	30.71
		ATOM	1444		MET				· ·		
		MOTA	1445	SD	MET	A	490	27.457	8.247 11.496	1.00	31.14
	1.5	MOTA	1446	CE	MET	A	490	26.321	7.408 10.418	1.00	30.36
	15	MOTA	1447	С	MET	Α	490	32.287	10.108 10.455	1.00	32.22
		ATOM	1448	0	MET	A	490	32.412	11.330 10.517	1.00	28.25
		MOTA	1449	N	ALA	A	491	33.184	9.262 10.949	1.00	33.81
		MOTA	1450	CA	ALA	A	491	34.407	9.730 11.585	1.00	39.92
		MOTA	1451	CB	ALA	A	491	35.168	8.554 12.185	1.00	37.22
	20	ATOM	1452	C	ALA	A	491	35.275	10.445 10.550	1.00	42.68
		ATOM	1453	0	ALA	Α	491	35.865	11.487 10.838	1.00	45.32
		ATOM	1454	N	LYS	Α.	492	35.339	9.876 9.347	1.00	44.39
		ATOM	1455	CA	LYS	Α	492	36.122	10.440 8.248	1.00	44.80
		ATOM	1456	CB	LYS	A	492	36.136	9.477 7.052	1.00	46.96
:===	25	ATOM	1457	CG	LYS	A	492	37.490	8.840 6.744	1.00	47.20
Ü	2.5	ATOM	1458	CD	LYS	A	492	37.390	7.830 5.595	1.00	45.71
Û		ATOM	1459	CE	LYS	A	492	38.631	6.937 5.518	1.00	45.55
IU							492				36.28
Œ		ATOM	1460	NZ	LYS	A		38.357	5.577 4.948	1.00	
/ /	20	ATOM	1461	C	LYS	A	492	35.534	11.780 7.809	1.00	45.61
1	30	ATOM	1462	0	LYS	A	492	36.227	12.604 7.215	1.00	46.18
		ATOM	1463	N	ALA	A	493	34,254	11.992 8.100	1.00	43.75
١٠٠٠		MOTA	1464	CA	ALA	Ą	493	33.590	13.238 7.728	1.00	42.42
8!		MOTA	1465	CB	ALA	A	493	32.097	13.001 7.528	1.00	40.92
		ATOM	1466	C	ALA	A	493	33.816	14.305 8.796	1.00	41.78
Ū	35	MOTA	1467	0	ALA	A	493	33.277	15.410 8.707	1.00	40.76
IJ		ATOM	1468	N	GLY	A	494	34.604	13.960 9.811	1.00	41.01
ä		ATOM	1469	CA	GLY	A	494	34.903	14.904 10.873	1.00	41.63
		ATOM	1470	C	GLY	A	494	33.857	15.060 11.965	1.00	41,18
Ð		ATOM	1471	0	GLY	A	494	33.916	16.011 12.747	1.00	38.22
Ð	40	ATOM	1472	N	LEU	A	495	32.905	14.138 12.043	1.00	39.53
		ATOM	1473	CA	LEU	A	495	31.876	14.248 13.068	1.00	38.91
		ATOM	1474		LEU	. A	495	30.713	13.304 12.769	1.00	39.20
		ATOM	1475	CG	LEU	A	495	29.540	13.901 11.988	1.00	40.73
		ATOM	1476	CD1	LEU	A	495	29.976	14.170 10.553	1.00	37.80
	45	ATOM	1477	CD2	LEU	A	495	28,349	12.943 12.026	1.00	40.94
	75	ATOM	1478	C	LEU	A	495	32.461	13,923 14.431	1.00	36.01
		ATOM	1479	0	LEU	A	495	33.347	13.074 14.544	1.00	34.85
							496	31.979	14.604 15.459	1.00	37.52
		ATOM	1480	N	THR	A					
	50	ATOM	1481	CA	THR	A	496	32.462	14.350 16.812	1.00	35.45
	50	ATOM	1482	CB	THR	A	496	31.925	15.375 17.829	1.00	37.55
		ATOM	1483	OG1	THR	A	496	30.498	15.263 17.908	1.00	32.93
		ATOM	1484	CG2	THR	A	496	32.315	16.797 17.434	1.00	36.16
		ATOM	1485	С	THR	A	496	31.933	12.987 17.210	1.00	35.67
		ATOM	1486	0	THR	A	496	31.081	12.427 16.521	1.00	34.34
	55	ATOM	1487	N	LEU	A	497	32.429	12.452 18.319	1.00	34.88
		ATOM	1488	CA	LEU	Α	497	31.965	11.151 18.786	1.00	35.67
		MOTA	1489	СВ	LEU	A	497	32.689	10.760 20.074	1.00	41.10
		ATOM	1490	CG	LEU	A	497	33.714	9.640 19.896	1.00	45.27
		ATOM	1491	CD1	LEU	A	497	34.755	9.692 21.008	1.00	45.09
	60	ATOM	1492	CD2	LEU	A	497	32.988	8.305 19.884	1.00	47.77
		ATOM	1493	C	LEU	A	497	30.455	11.198 19.026	1.00	33.72
		ATOM	1494	0	LEU	A	497	29.712	10.350 18.534	1.00	33.20
		7100	エマブな	-	LEU	^	4 <i>31</i>	29.712	70.330 TO.334	1.00	JJ . 2 U

	5	MOTA	1495	N	GLN	A	498	30.006	12.202 19.773	1.00	30.82
		MOTA	1496	CA	GLN	A	498	28.586	12.348 20.062	1.00	31.47
		MOTA	1497	CB	GLN	A	498	28.344	13.566 20.951	1.00	30.51
		MOTA	1498	CG	GLN	A	498	26.894	13.796 21.341	1.00	34.38
	•	MOTA	1499	CD	GLN	A	498	26.712	15.130 22.015	1.00	38.60
	10	MOTA	1500	OE1	GLN	A	498	27.363	16.112 21.686	1.00	42.92
		MOTA	1501	NE2	GLN	A	498	25.809	15.176 23.008	1.00	40.02
		ATOM	1502	С	GLN	A	498	27.776	12.476 18.773	1.00	30.47
		MOTA	1503	Ö	GLN	A	498	26.682	11.927 18.665	1.00	30.85
		MOTA	1504	N	GLN	A	499	28.311	13.196 17.793	1.00	29.52
	15	MOTA	1505	CA	GLN	A	499	27.603	13.362 16.524	1.00	30.24
		MOTA	1506	CB	GLN	A	499	28.292	14.420 15.661	1.00	30.20
		MOTA	1507	CG	GLN	A	499	28.135	15.840 16.191	1.00	31.60
		MOTA	1508	CD	GLN	A	499	28.930	16.849 15.389	1.00	31.61
		ATOM	1509	OE1	GLN	A	499	29.956	16.518 14.795	1.00	30.66
	20	ATOM	1510	NE2	GLN	A	499	28.457	18.089 15.364	1.00	34.17
		MOTA	1511	C	GLN	A	499	27.529	12.047 15.753	1.00	29.40
		ATOM	1512	0	GLN	A	499	26.567	11.793 15.032	1.00	30.04
		MOTA	1513	N	GLN	A	500	28.550	11.214 15.903	1.00	25.67
		ATOM	1514	CA	GLN	A	500	28.577	9.937 15.216	1.00	29.30
	25	ATOM	1515	CB	GLN	A	500	29.933	9.276 15.406	1.00	31.52
Ď		ATOM	1516	CG	GLN	A	500	31.012	9.839 14.508	1.00	33.05
Ü		ATOM	1517	CD	GLN	A	500	32.371	9.370 14.930	1.00	34.84
Ö		ATOM	1518	OE1	GLN	A	500	32.612	8.194 15.141	1.00	36.47
		ATOM	1519	NE2	GLN	A	500	33.301	10.324 15.082	1.00	38.25
] <u></u>	30	ATOM	1520	C	GLN	A	500	27.459	9.017 15.711	1.00	27.98
		ATOM	1521	0	GLN	A	500	26.700	8.469 14.908	1,00	24.84
, 7 -		ATOM	1522	N	HIS	A	501	27.357	8.864 17.029	1.00	26.20
		ATOM	1523	CA	HIS	A	501	26.327	8.021 17.631	1.00	27.63
51 1224		ATOM	1524	CB	HIS	A	501	26.535	7.919 19.145	1.00	27.97
	35	ATOM	1525	CG	HIS	A	501	27.892	7.420 19.535	1.00	34.27
(A)		ATOM	1526	CD2	HIS	A	501	28,726	6.540 18.931	1.00	36.10
Ш		ATOM	1527	ND1	HIS	Α	501	28.541	7.844 20.676	1.00	31.81
		ATOM	1528	CE1	HIS	A	501	29.716	7.244 20.758	1.00	34.89
Ü		MOTA	1529	NE2	HIS	A	501	29.854	6.448 19.712	1.00	37.46
i Li	40	ATOM	1530	С	HIS	A	501	24.935	8.572 17.348	1.00	24.93
		ATOM	1531	0	HIS	A	501	23.998	7.815 17.107	1.00	26.73
		ATOM	1532	N	GLN	A	502	24.796	9.892 17.379	1.00	22.79
		ATOM	1533	CA	GLN	A	502	23.504	10.498 17.119	1.00	26.14
	•	ATOM	1534	CB	GLN	Α	502	23.554	12.006 17.371	1.00	22.36
	45	ATOM	1535	CG	GLN	A	502	23.460	12.378 18.848	1.00	26.19
		ATOM	1536	CD	GLN	A	502	23.589	13.875 19.089	1.00	28.67
		ATOM	1537	OE1	GLN	A	502	23.632	14.663 18.149	1.00	28.40
		ATOM	1538	NE2	GLN	A,	502	23.651	14.268 20.355	1.00	24.72
		ATOM	1539	C	GLN	A	502	23.056	10.221 15.685	1.00	26.19
	50	ATOM	1540	0	GLN	A	502	21.913	9.822 15.453	1.00	24.09
		ATOM	1541	N	ARG	A	503	23.955	10.429 14.727	1.00	24.88
		ATOM	1542	CA	ARG	A	503	23.630	10.196 13.326	1.00	25.25
		ATOM	1543	CB	ARG	A	503	24.772	10.668 12.418	1.00	27.63
		ATOM	1544	CG	ARG	A	503	24.432	10.563 10.932	1.00	28.75
	55	ATOM	1545	CD	ARG	A	503	25.479	11.222 10.056	1.00	27.72
		ATOM	1546	NE	ARG	A	503	25.072	11.214 8.654	1.00	29.35
		ATOM	1547	CZ	ARG	A	503	24.279	12.126 8.105	1.00	25.84
		ATOM	1548	NH1	ARG	A	503	23.804	13.120 8.840	1.00	27.35
		ATOM	1549	NH2	ARG	A	503	23.962	12.044 6.820	1.00	30.63
	60	ATOM	1550	C	ARG	A	503	23.347	8.716 13.065	1.00	24.53
		ATOM	1551	0	ARG	A	503	22.425	8.375 12.321	1.00	25.90
		ATOM	1552		LEU	A	504	24.143	7.841 13.672	1.00	23.00
		7		••		••	201	176		,	

	5	MOTA	1553	CA	LEU	A	504	23.953	6.406	13.496	1.00	22.60
		ATOM	1554	CB	LEU	A	504	24.971	5.621	14.323	1.00	25.43
		ATOM	1555	CG	LEU	A	504	24.781	4.100	14.344	1.00	25.23
		MOTA	1556	CD1	LEU	A	504	25.166		12.991	1.00	28.52
		ATOM	1557	CD2	LEU	A	504	25.627		15.444	1.00	22.14
	10	ATOM	1558	C	LEU	A	504	22.541		13.934	1.00	22.84
	10											
		MOTA	1559	0	LEU	A	504	21.846		13.245	1.00	21.51
•		MOTA	1560	N	ALA	A	505	22.120	-	15.083	1.00	20.16
		ATOM	1561	CA	ALA	A	505	20.784		15.585	1.00	21.08
		ATOM	1562	CB	ALA	A	505	20.605		16.980	1.00	23,57
	15	ATOM	1563	С	ALA	A	505	19.738		14.628	1.00	20.20
		ATOM	1564	Ø	ALA	A	505	18.754	6.164	14.293	1.00	17.31
		ATOM	1565	N	GLN	A	506	19.954	8.066	14.184	1.00	22.11
		ATOM	1566	CA	GLN	A	506	19.013	8.711	13,277	1.00	21.70
		ATOM	1567	CB	GLN	A	506	19.502	10.111	12.903	1.00	22.26
	20	ATOM	1568	CG	GLN	Α	506	19.240	11.158	13.975	1.00	25.84
		ATOM	1569	CD	GLN	A	506	20.187		13.857	1.00	32.88
		ATOM	1570	OE1	GLN	A	506	20.704		12.777	1.00	31.23
		ATOM	1571	NE2	GLN	A	506	20.423		14.968	1.00	32.97
		MOTA	1572	C	GLN	A	506	18.813		12.016	1.00	23.57
	25	ATOM		_			506					
	23		1573	0	GLN	A		17.684		11.550	1.00	21.83
ı.		ATOM	1574	N	LEU	A	507	19.905		11.474	1.00	19.98
IU		ATOM	1575	CA	LEU	A	507	19.827		10.263	1.00	22.03
Ø		MOTA	1576	CB	LEU	A	507	21.231	6.244	9.725	1.00	23.02
ļ.		ATOM	1577	ÇG	LEU	A	507	22.026	7.457	9,225	1.00	25.80
	30	MOTA	1578	CD1	LEU	A	507	23.371	6.994	8.713	1.00	27.67
ļ.		MOTA	1579	CD2	LEU	A	507	21.264	8.176	8,130	1.00	25.62
أمرا		MOTA	1580	C	LEU	A	507	19.090	5,219	10.496	1.00	22.35
		ATOM	1581	0	LEU	A	507	18.242	4.825	9.695	1.00	19.33
!! !!!!		ATOM	1582	N	LEU	A	508	19.402	4.539	11.592	1.00	21.29
	35	ATOM	1583	CA	LEU	A	508	18.755	3.260	11.881	1.00	20.72
IJ		MOTA	1584	CB	LEU	A	508	19.501		13.001	1.00	22.29
Ш		ATOM	1585	CG	LEU	A	508	20.977		12.678	1.00	24.70
		ATOM	1586	CD1	LEU	A	508	21.642		13.814	1.00	21.37
νĎ		ATOM	1587	CD2	LEU	A	508	21.095		11.367	1.00	27.88
ıĎ	40	ATOM	1588	C	LEU	A	508	17.279		12.239	1.00	19.14
		ATOM	1589	Õ	LEU	A	508	16.498		12.003	1.00	17.80
		ATOM	1590		LEU	A	509	16.895		12.815		19.23
			1591									
		MOTA			LEU	A	509	15.495		13.173	1.00	20.14
	45	ATOM	1592	ÇB	LEU	A	509	15.347		13.999	1.00	20.28
	43	ATOM	1593	CG	LEU	A	509	15.710		15.479	1.00	21.35
		ATOM	1594		LEU	A	509	15.354		16.263	1.00	19.29
		ATOM		CD2	LEU	A	509	14.989		16.038	1.00	20.84
		MOTA	1596	С	LEU	Α	509	14.681		11.885	1.00	21.69
		MOTA	1597	0	LEU	A	509	13.493	4.514	11.854	1.00	22.40
	50	MOTA	1598	N	ILE	A	510	15.343	5.270	10.815	1.00	20.22
		ATOM	1599	CA	ILE	A	510	14.710	5.397	9.508	1.00	20.40
		ATOM	1600	CB	ILE	A	510	15.720	5.946	8.464	1.00	28.34
		ATOM	1601	CG2	ILE	A	510	15.208	5.710	7.056	1.00	32.54
		ATOM	1602	CG1	ILE	A	510	15.965	7.438	8.696	1.00	28.23
	55	ATOM	1603	CD1	ILE	A	510	14.789	8,189	9.288	1.00	33.16
		ATOM	1604	C	ILE	A	510	14.709	4.025	9.049	1.00	23.21
		ATOM	1605	0	ILE	A	510	13.120	3.906	8.474		21.16
		ATOM	1606		LEU						1.00	
				N		A	511	14.998	2.989	9.323	1.00	18.38
	60	ATOM	1607	CA	LEU	A	511	14.633	1.634	8.917	1.00	20.10
	00	ATOM	1608	CB	LEU	A	511	15.754	0.656	9.267	1.00	21.69
		ATOM	1609	CG	LEU	A	511	17.128	1.022	8.692	1.00	26.03
		ATOM	1610	CD1	LEU	Α	511	18.024	-0.206	8.724	1.00	22.68

	5	ATOM	1611	CD2	LEU	A	511	16.996	1.544	7.267	1.00	26.00
		ATOM	1612	C	LEU	A	511	13.326	1.181	9,543	1.00	18.51
		ATOM	1613	ō	LEU	A	511	12.663	0.283	9.025	1.00	17.40
		ATOM	1614	N	SER	A	512	12.963		10.664	1.00	18.68
		MOTA	1615	CA	SER	A	512	11.718		11.331	1.00	18.67
	10	ATOM	1616	CB	SER	A	512	11.661		12.720	1.00	18.58
	10											
		MOTA	1617	og	SER	A	512	10.315		13.165	1.00	27.92
		ATOM	1618	C	SER	A	512	10.572		10.464	1.00	18.43
		ATOM	1619	0	SER	A	512	9.584		10.236	1.00	13.91
		ATOM	1620	N	HIS	A	513	10.713	3.228	9.982	1.00	18.95
	15	ATOM	1621	CA	HIS	A	513	9.698	3.831	9.124	1.00	20.82
		ATOM	1622	CB	HIS	A	513	10.013	5.315	8.894	1.00	24.36
		ATOM	1623	CG	HIS	A	513	9.923	6.146	10.136	1.00	32.13
		ATOM	1624	CD2	HIS	A	513	8.863	6.744	10.734	1.00	35.29
		ATOM	1625	ND1	HIS	A	513	11.010	6.391	10.949	1.00	35.00
	20	ATOM	1626	CE1	HIS	A	513	10.624	7.101	11.995	1.00	34.67
		ATOM	1627	NE2	HIS	A	513	9.326		11.889	1.00	35.82
		ATOM	1628	C	HIS	A	513	9.650	3.079	7.790	1.00	19.08
		MOTA	1629	Õ	HIS	A	513	8.575	2.863	7.220	1.00	21.20
		ATOM	1630	N	ILE	A	514	10.809	2.662	7.227	1.00	15.58
	25									6.038		
	23	MOTA	1631	CA	ILE	A	514	10.849	1.921		1.00	16.48
·Ø		ATOM	1632	CB	ILE	A	514	12.312	1.678	5.576	1.00	20.09
IU		ATOM	1633	CG2	ILE	A	514	12.349	0.602	4.499	1.00	19.55
10		ATOM	1634	CG1	ILE	A	514	12.891	2.986	5.019	1.00	22.62
		ATOM	1635	CD1	ILE	A	514	14.393	2.992	4.874	1.00	27.34
4	30	MOTA	1636	C	ILE	A	514	10.112	0.590	6.210	1.00	16.40
4		ATOM	1637	0	ILE	A	514	9.364	0.164	5.328	1.00	17.91
أيها		MOTA	1638	N	ARG	A	515	10.301	-0.071	7.347	1.00	18.20
		MOTA	1639	CA	ARG	A	515	9.585	-1.327	7.564	1.00	18.05
		MOTA	1640	CB	ARG	A	515	9.984	-1.980	8.889	1.00	18.36
	35	ATOM	1641	CG	ARG	A	515	9.173	-3.237	9.213	1.00	17.84
إبرا		ATOM	1642	CD	ARG	A	515	9.823	-4.470	8.606	1.00	17.94
ليرا		ATOM	1643	NE	ARG	A	515	11.038	-4.813	9.334	1.00	26.96
		ATOM	1644	CZ	ARG	A	515	11.406	-6.051	9.641	1.00	25.13
ب ي .		MOTA	1645	NH1	ARG	A	515	10.654	-7.080	9.281	1.00	23.49
ı	40	MOTA	1646	NH2	ARG	A	515	12.511	-6.254		1.00	32.16
	40	MOTA	1647	C	ARG	A	515	8.089	-1.020	7.594	1.00	18.29
			1648				515					
		ATOM			ARG	A		7.275	-1.759			
		ATOM	1649		HIS	A	516	7.726	0.085	8.237	1.00	19.33
	45	MOTA	1650	CA	HIS	A	516	6.317	0.441		1.00	17.78
	45	MOTA	1651	CB	HIS	A	516	6.126	1.702		1.00	16.84
		ATOM	1652	CG	HIS	A	516	4.692	2.101	9.312	1.00	18.16
		ATOM	1653	CD2	HIS	A	516	3.967	3.061	8.691	1.00	21.17
		MOTA	1654	ND1	HIS	A	516	3.830	1.469	10.180	1.00	20.70
		MOTA	1655	CE1	HIS	A	516	2.633	2.022	10.089	1.00	21.52
	50	ATOM	1656	NE2	HIS	A	516	2.689	2.992	9.191	1.00	20.16
		ATOM	1657	С	HIS	A	516	5.708	0.659	6.954	1.00	16.63
		ATOM	1658	0	HIS	A	516	4.598	0.216	6.689	1.00	18.58
		ATOM	1659	N	MET	A	517	6.438	1.334	6.073	1.00	15.29
		ATOM	1660	CA	MET	A	517	5.925	1.589	4.730	1.00	16.58
	55	ATOM	1661	CB	MET	A	517	6.837	2.576	4.002	1.00	18.66
		ATOM	1662	CG	MET	A	517	6.805	3.978	4.631	1.00	16.88
		ATOM	1663	SD			517 517	7.670	5.243	3.701	1.00	24.08
					MET	A						
		ATOM	1664	CE	MET	A	517 517	9.390	4.777	3.962	1.00	14.30
	60	ATOM	1665	С	MET	A	517	5.773	0.289		1.00	17.86
	60	ATOM	1666	0	MET	A	517	4.791	0.101	3.224	1.00	18.25
		ATOM	1667	N	SER	A	518	6.741	-0.610		1.00	17.43
		ATOM	1668	CA	SER	A	518	6.697	-1.896	3.403	1.00	18.40

	5	ATOM	1669	CB	Ser	A	518	7.974	-2.695	3,680	1.00	16.77
		ATOM	1670	OG	Ser	A	518	7.834	-4.030	3.227	1.60	24.23
		ATOM	1671	C	SER	A	518	5.476	-2.695	3.854	1.00	17,91
		ATOM	1672	0	SER	A	518	4.788	-3.295	3.030	1.00	18.97
		ATOM	1673	N	ASN	A	519	5.204	-2.697	5.159	1.00	21.82
	10	ATOM	1674	CA	ASN	A	519	4.047	-3.418	5.696	1.00	21.99
	10						519	3.957		7.216		23.24
		ATOM	1675	CB	ASN	A			-3.257		1.00	
		MOTA	1676	CG	asn	A	519	5.046	-4.011	7.957	1.80	31.14
		atom	1677	OD1	asn	A	519	5.585	-4.999	7.461	1.00	32.50
		atom	1678	ND2	asn	A	519	5.368	-3.545	9.163	1.00	29,10
	15	MOTA	1679	C	ASN	A	519	2.761	-2.871	5.079	1.60	23.76
		ATOM	1680	0	ASN	A	519	1.902	-3.632	4.631	1.00	24.48
		ATOM	1681	N	LYS	A	520	2,627	-1.548	5.078	1.00	20.58
		ATOM	1682	CA	LYS	A	520	1.449	-0.900	4.512	1.00	25.49
		ATOM	1683	CB	LYS	A	520	1.484	0.607	4.786	1.00	24.73
	20	ATOM	1684	CG	LYS	A	520	1.512	0.996	6.264	1.00	32.31
		ATOM	1685	CD	LYS	A	520	0.656	0.080	7,133	1.00	37.11
		ATOM	1686	CE	LYS	A	520	-0.787	0.547	7.181	1.00	41.56
			1687	NZ	LYS	A	520	-1.560	-0.134	8.261	1.00	42.66
		ATOM										
	25	ATOM	1688	C	LYS	A	520	1.380	-1,144	3.005	1.00	25.40
	25	MOTA	1689	0	LYS	A	520	0.316	-1.436	2.467	1.00	26.44
Q		ATOM	1690	N	GLY	Α	521	2.520	-1.021	2.332	1.00	22.88
ľŪ		ATOM	1691	CA	GLY	Α	521	2.561	-1.236	0.897	1.00	21.53
Ö		ATOM	1692	C	GLY	Α	521	2.177	-2.655	0.536	1.00	24.79
i de		ATOM	1693	0	GLY	A	521	1.426	-2.878	-0.413	1.00	25.71
ايها	30	ATOM	1694	N	MET	A	522	2,696	-3.619	1.290	1.00	22.75
		ATOM	1695	CA	MET	A	522	2.393	-5.027	1.058	1.00	23.40
inds.		ATOM	1696	CB	MET	A	522	3.170	-5.898	2.042	1.00	25.74
'W		ATOM	1697	CG	MET	A	522	3.396	-7.308	1.559	1.00	31.06
ži		ATOM	1698	SD	MET	A	522	4.572	-7.352	0.202	1.00	34.06
	35	ATOM	1699	CE	MET	A	522	6.125	-7.229	1.113	1.00	29.28
	JJ	ATOM	1700	C	MET	A	522	0.893	-5.281	1.218	1.00	26.49
				-			522	0.268	-5.920	0.361	1.00	25.47
		ATOM	1701	0	MET	A						
·D		ATOM	1702	N	GLU	A	523	0.321	-4.790	2.318	1.00	24.95
, D	40	ATOM	1703	CA	GLU	A	523	-1.110	-4.954	2.566	1.00	27,15
122	40	ATOM	1704	CB	GLU	A	523	-1.555	-4.206	3.835	1.00	31.08
		MOTA	1705	CG	GLU	A	523	-0.830	-4.564	5.124	1.00	38.93
		ATOM	1706	CD	GLU	Α	523	-1.153	-3.585	6.258	1.00	46.90
		MOTA	1707	OE1	GLU	Α	523	-2.225	-2.938	6.200	1.00	47.40
	•	ATOM	1708	OE2	GLU	Α	523	-0.337	-3.460	7.202	1.00	47.39
	45	ATOM	1709	С	GLU	A	523	-1.872	-4.368	1.381	1.00	26.10
		ATOM	1710	0	GLU	A	523	-2.817	-4.964	0.882	1.00	24.25
		ATOM		N	HIS	A	524	-1.449	-3.182	0.940	1.00	24.74
		ATOM		CA	HIS	A	524	-2.093	-2.505		1.00	26.17
		ATOM	1713	СВ	HIS	A	524	-1.481	-1.125		1.00	24.64
	50						524		-0.278		1.00	
	50	ATOM		CG	HIS	A		-2.233				30.59
		MOTA		CD2	HIS	A	524	-3.227	0.624		1.00	32.15
		ATOM	1716	ND1	HIS	A	524	-2.008	-0.332		1.00	27.46
		MOTA		CE1	HIS	A	524	-2.829	0.502		1.00	34.58
		ATOM	1718	NE2	HIS	A	524	-3.580	1.094		1.00	30.50
	55	ATOM	1719	С	HIS	A	524	-1.996	-3.294	-1.474	1.00	28.06
		ATOM	1720	0	HIS	A	524	-2.976	-3.419	-2.217	1.00	29.81
		MOTA	1721	N	LEU	A	525	-0.811	-3.824	-1.746	1.00	27.07
		ATOM		CA	LEU	A	525	-0.594	-4.601		1.00	29.30
		ATOM	1723	CB	LEU	A	525	0.865	-5.039		1.00	26.39
	60	ATOM	1724	CG	LEU	A	525	1.307	-5.765		1.00	29.34
		ATOM		CD1	LEU	A	525	0.734	-5.076		1.00	29.61
		ATOM	1726		LEU	A	525	2.829	-5.769		1.00	29.22
					~~~	_	~ ~ ~	2.029	2.702	2.270		

	5	ATOM	1727	C	LEU	A	525	-1.497	-5.822 -2.950	1.00	31.67
		MOTA	1728	0	LEU	A	525	-2.128	-6.133 -3.957	1.00	32.45
		ATOM	1729	N	TYR	A	526	-1.559	-6.512 -1.814	1.60	36.14
		ATOM	1730	CA	TYR	A	526	-2.397	-7.698 -1.696	1.00	40.36
		ATOM	1731	CB	TYR	A	526	-2.221	-8.350 -0.324	1.00	45.27
	10	ATOM		-	TYR		5 2 6	-2.849	-9.722 -0.229	1.00	50.62
	10		1732	CG		A				-	
		ATOM	1733	CD1	TYR	A	526		-10.867 -0.537	1.00	54.55
		ATOM	1734	CEl	TYR	A	526	-2.698	-12.136 -0.482	1.00	57.27
		ATOM	1735	CD2	TYR	A	526	-4.188	-9.876 0.142	1.00	53.48
		ATOM	1736	CE2	TYR	A	526	-4.781	-11.141 0.201	1.00	55.93
	15	ATOM	1737	CZ	TYR	A	526	-4.029	-12.264 -0.113	1.00	56.60
		ATOM	1738	OH	TYR	A	526	-4.603	-13.515 -0.063	1.00	60.70
		ATOM	1739	C	TYR	A	526	-3.852	-7.298 -1.893	1.00	42.83
		ATOM	1740	O	TYR	A	526	-4.673	-8.094 -2.349	1.00	43.49
		ATOM	1741	N	SER	A	527	-4.158	-6.055 -1.543	1.00	41.55
	20	ATOM	1742	CA	SER	A	527	-5.503	-5.523 -1.686	1.00	44.04
	20	ATOM	1743	CB	SER	A	527	-5.606	-4.169 -0.979	1.00	43.47
		MOTA	1744	OG	SER	A	527	-6.954	-3.789 -0.786	1.00	47.51
		ATOM	1745	C	SER	A	527	-5.817	-5.356 -3.172	1.00	44.18
		ATOM	1746	0	SER	A	527	-6.883	-5.757 -3.642	1.00	44.88
	25	ATOM	1747	N	MET	A	528	-4.883	-4.755 -3.901	1.00	41.79
Ö		ATOM	1748	CA	MET	A	528	-5.047	-4.536 -5.331	1.00	44.04
เป็		ATOM	1749	CB	MET	A	528	-3.898	-3.679 -5.870	1.00	44.78
Ü		ATOM	1750	CG	MET	A	528	-3.965	-2.206 -5.468	1.00	45.37
		ATOM	1751	SD	MET	A	528	-5.652	-1.598 -5.273	1.00	51.83
4	30	ATOM	1752	CE	MET	A	528	-5.553	-0.004 -6.044	1.00	46.61
V		ATOM	1,753	C	MET	A	528	-5.087	-5.871 -6.071	1.00	44.29
-		ATOM	1754	0	MET	A	528	-5.689	-5.979 -7.137	1.00	44.02
1							529		-6.883 -5.499	1.00	46.78
ı,		MOTA	1755	N	LYS	A		-4.443			
	25	ATOM	1756	CA	LYS	A	529	-4.413	-8.213 -6.099	1.00	51.28
li.	35	ATOM	1757	СВ	LYS	A	529	-3.550	-9.158 -5.261	1.00	50.87
IJ		ATOM	1758	CG	LYS	A	529	-2.798	-10.204 -6.071	1.00	50.55
		ATOM	1759	CD	LYS	A	529	-3.548	-11.520 -6.104	1.00	51.25
Ü		ATOM	1760	CE	LYS	A	529	-2.616	-12.694 -5.856	1.00	53.22
Ď		ATOM	1761	NZ	LYS	A	529	-2.420	-12.954 -4.402	1.00	53.22
الية	40	MOTA	1762	C	LYS	A	529	-5.829	-8.768 -6.182	1.00	54.27
		ATOM	1763	Ο.	LYS	A	529	-6.325	-9.069 -7.266	1.00	55.50
		ATOM	1764		CYS	Α	530	-6.472	-8.901 -5.027		56.71
		ATOM	1765	CA	CYS	A	530	-7.833	-9.416 -4.961	1.00	58.35
		ATOM	1766	СВ	CYS	A	530	-8.333	-9.380 -3.517	1.00	59.78
	45	MOTA	1767	SG	CYS	À	530	-7.289	-10.304 -2.358	1.00	63.19
	43								-8.609 -5.858		
		ATOM	1768	C	CYS	A	530	-8.766		1.00	59.36
		ATOM	1769	0	CYS	A	530	-9.644	-9.169 -6.514	1.00	59.52
		MOTA	1770	N	LYS	A	531	-8.569	-7.293 -5.888	1.00	59.24
		ATOM	1771	CA	LYS	A	531	-9.390	-6.411 -6.713	1.00	60,14
	50	MOTA	1772	CB	LYS	A	531	-9.158	-4.952 -6.317	1.00	58.92
		MOTA	1773	C	LYS	A	531	-9.073	-6.615 -8.195	1.00	61.48
		MOTA	1774	0	LYS	A	531	-9.618	-5.928 -9,061	1.00	61.74
		MOTA	1775	N	ASN	A	532	-8.179	-7.561 -8.474	1.00	61.65
		ATOM	1776	CA	ASN	A	532	-7.783	-7.890 -9.840	1.00	61.60
	55	ATOM	1777	CB	ASN	A	532	-8.966	-8.518-10.581	1.00	62.28
		ATOM	1778	CG	ASN	A	532	-8.750	-9.985-10.878	1.00	64.66
									-10.352-11.983		67.08
		ATOM		OD1	ASN	A	532			1.00	
		ATOM	1780	ND2	ASN	A	532		-10.836 -9.891	1.00	62.68
	60	ATOM	1781	C	ASN	A	532	-7.247	-6.710-10.648	1.00	59.75
	60	MOTA	1782	0	ASN	A	532	-7.487	-6.615-11.850	1.00	57.50
		MOTA	1783	N	VAL	A	533	-б.507	-5.822 -9.992	1.00	59.39
		MOTA	1784	CA	VAL	A	533	-5.954	-4.656-10.669	1.00	58.22

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5	MOTA	1785	СВ	VAL	A	533	-6.223	-3.371 -9.865	1.00	59.20
	MOTA	1786	CG1	VAL	A	533	-6.181	-2.163-10.785	1.00	59.21
	ATOM	1787	CG2	VAL	A	533	-7.574	-3.467 -9.172	1.00	59.57
	ATOM	1788	С	VAL	A	533	-4.452	-4.767-10.907	1.00	57.86
	MOTA	1789	0	VAL	A	533	-3.846	-3.874-11.499	1.00	60.56
10	MOTA	1790	N	VAL	A	534	-3.852	-5.863-10.451	1,00	56.03
	MOTA	1791	CA	VAL	A	534	-2.417	-6.063-10.621	1.00	54.11
	ATOM	1792	CB	VAL	A	534	-1.767	-6,632 -9.341	1.00	54.02
	MOTA	1793	CG1	VAL	A	534	-0.300	-6.950 -9,601	1.00	52.37
	ATOM	1794	CG2	VAL	A	534	-1.900	-5.635 -8.200	1.00	55.70
15	MOTA	1795	C	VAL	A	534	-2.089	-7.008-11.770	1.00	54.31
	ATOM	1796	0	VAL	A	S34	-2.519	-8.164-11.786	1.00	51.66
	ATOM	1797	N	PRO	A	535	-1.315	-6.527-12.755	1.00	53.54
	ATOM	1798	CD	PRO	A	535	-0.749	-5.172-12.874	1.00	54.28
	MOTA	1799	CA	PRO	A	535	-0.949	-7.373-13.893	1.00	53.24
20	MOTA	1800	CB	PRO	A	535	0.011	-6.500-14.697	1.00	52.71
	ATOM	1801	CG	PRO	A	535	-0.353	-5.102-14.319	1.00	53.19
	MOTA	1802	C	PRO	A	535	-0,296	-8.664-13.411	1.00	54.25
	atom	1803	0	PRO	A	535	0.121	-8.768-12.254	1.00	54.56
_ :	ATOM	1804	N	LEU	A	536	-0.203	-9.645-14,299	1.00	53.63
25	ATOM	1805	CA	LEU	A	536	0.382	-10,926-13,937	1.00	53.11
	MOTA	1806	CB	LEU	A	536	-0.250	-12.046-14.763	1.00	51.88
	MOTA	1807	CG	LEU	A	536	-0.686	-13.256-13.938	1.00	51.83
1	MOTA	1808	CD1	LEU	A	536	-1.953	-12.917-13.173	1.00	49.51
••	ATOM	1809	CD2	LEU	Α	536	-0.905	-14.449-14.854	1.00	53.43
30	ATOM	1810	C	LEU	A	536	1.895	-10.990-14.081	1.00	52.58
	ATOM	1811	0	LEU	A	536	2.414	-11.501-15.075	1.00	55.33
	MOTA	1812	N	TYR	A	537	2.601	-10.462-13.087	1.00	48.72
	ATOM	1813	CA	TYR	A	537	4.057	-10.501-13.093	1.00	44.22
35	ATOM	1814	CB	TYR	A	537	4.627	-9.134-12.709	1.00	44.52
33	MOTA	1815	CG	TYR	A	537	4.331	-8.053-13.731	1.00	45,18
	ATOM	1816	CD1	TYR	A	537 537	3.623 3.334	-6.905-13.376	1.00	43,77 45.23
	ATOM ATOM	1817	CE1	TYR	A	537		-5.915-14.317	1.00	
	ATOM	1818 1819	CD2 CE2	TYR TYR	A A	537 537	4.747 4.462	-8.187-15.058 -7.202-16.008	1.00	46.91 43.93
40	ATOM	1820	CZ	TYR	A	53 ⁷	3.757	-6.071-15.631	1.00	46.70
40	MOTA	1821	OH	TYR	A	53 <i>7</i> 53 <i>7</i>	3.472	-5.097-16.565	1.00	48.35
	ATOM	1822	C	TYR	A	537 537	4.401	-11.562-12.056	1.00	41.29
	ATOM	1823	0	TYR	A	53 <i>7</i> 537	4.330	-11.319-10,856	1.00	41.82
	ATOM	1824	N	ASP	A	538	4.748	-12.748-12.540	1.00	40.34
45	MOTA	1825	CA	ASP	Ā	538	5.055		1.00	38.84
1,5	ATOM	1826	CB	ASP	A	538	5.594		1.00	43.47
	ATOM	1827	CG	ASP	A	538	4.571	-15.531-13.566	1.00	47.67
	ATOM	1828	OD1	ASP	A	538		-16.373-14.416	1.00	49.33
	ATOM	1829	OD2	ASP	A	538		-15.073-13.511	1.00	48.07
50	ATOM	1830	C	ASP	Α	538	5.991		1.00	37.28
- 0	ATOM	1831	0	ASP	A	538		-13.964 -9.371	1.00	38.55
	ATOM	1832	N	LEU	A	539		-13.200-10.766	1.00	33.83
	ATOM	1833	CA	LEU	A	539		-12.959 -9.692	1.00	32.80
	ATOM	1834	СВ	LEU	A	539		-12.323-10.263	1.00	32.78
55	ATOM	1835	CG	LEU	A	539	10.561		1.00	30.93
	30014	1026	-D1	1.511		530		12 200 0 402	1.00	22.22

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	5	MOTA	1843	CG	LEU	A	540	5.124		-7.945	1.00	31.12
		MOTA	1844	CD1	LEU	A	540	6.092		-6.838	1.00	29.76
		MOTA	1845	CD2	LEU	A	540	4.693	-6.572	-8.762	1.00	30.85
		MOTA	1846	C	LEU	A	540	5.337	-10.660	-7.282	1.00	34.55
		MOTA	1847	0	LEU	A	540	5.316	-10.522	-6.063	1.00	31.60
	10	ATOM	1848	N	LEU	A	541	4.446	-11.388	-7.941	1.00	35.64
		MOTA	1849	CA	LEU	A	541	3.378	-12.101	-7.245	1.00	37.84
		ATOM	1850	CB	LEU	A	541		-12.771		1.00	38.49
		ATOM	1851	CG	LEU	A	541		-11.932		1.00	39.80
		ATOM	1852	CD1	LEU	A	541		-11.476		1.00	40.02
	15	ATOM	1853	CD2	LEU	A	541		-10.733		1.00	40.48
	13	ATOM	1854	C	LEU	A	541		-13.147		1.00	40.10
		ATOM	1855	0	LEU	A	541		-13.254		1,00	42.72
											1.00	38.45
		ATOM	1856	N	GLU	A	542		-13.915			•
	20	ATOM	1857	CA	GLU	A	542		-14.932		1.00	39.59
	20	ATOM	1858	CB	GLU	A	542		-15.566		1.00	41.73
		ATOM	1859	CG	GLU	A	542		-16.327		1.00	48.34
		ATOM	1860	CD	GLU	A	542	6.931			1.00	52.57
		MOTA	1861	OE1	GLU	A	542	8.049			1.00	52.70
		ATOM	1862	OE2	GLU	A	542	6.230		-8.331	1.00	53.69
	25	ATOM	1863	C	GLU	A	542	5.989			1.00	39.94
ā		ATOM	1864	0	GLU	A	542	5.567	-14.710	-3.472	1.00	40.99
ĩŨ		MOTA	1865	N	MET	A	543	6.844	-13.287	-4.663	1.00	38.29
i.ō		ATOM	1866	CA	MET	A	543	7.380	-12.580	-3.503	1.00	38.11
i.u		MOTA	1867	CB	MET	A	543	8.242	-11.408	-3.963	1.00	37.34
,	30	ATOM	1868	CG	MET	A	543	9.311	-11.797	-4.953	1.00	40.59
		ATOM	1869	SD	MET	A	543		-12.223		1.00	45.64
ind in 1		ATOM	1870	CE	MET	A	543		-11.399		1.00	42,61
-		ATOM	1871	C	MET	A	543		-12.064		1.00	37.94
ŭi		ATOM	1872	ō	MET	A	543		-12.127		1.00	39.20
	35	ATOM	1873	Ŋ	LEU	A	544		-11.544		1.00	39.44
IJ	,,	ATOM	1874	CA	LEU	A	544		-11.013		1.00	40.91
IJ		ATOM	1875	CB	LEU	A	544		-10.344		1.00	39.88
			1876		LEU		544	1.775		-2.688	1.00	42.70
ŧΩ		ATOM		CG		A						
ιŌ	40	ATOM	1877	CD1	LEU	A	544	2.060		-1.586	1.00	37.35
	40	ATOM	1878	CD2	LEU	A	544	0.854		-3.741	1.00	38.47
		ATOM	1879	C	LEU	A	544	3.420	-12.120		1.00	42.83
		MOTA	1880	_	LEU	A	544		-11.899		1.00	42.73
		ATOM	1881		ASP	A	545		-13.313		1.00	46.32
	4.5	ATOM	1882	CA	ASP	A	545		-14.456		1.00	50.65
	45	MOTA	1883	CB	ASP	Α	545		-15.617		1.00	53.67
		MOTA	1884	CG	ASP	A	545		-15.278		1.00	57.35
		ATOM	1885	OD1	ASP	A	545	0.697	-14.568	-3.475	1,00	59.99
		ATOM	1886	OD2	ASP	A	545	1.999	-15.718	-4.824	1.00	59.68
		ATOM	1887	С	ASP	A	545	3.559	-14.898	-0.327	1.00	50.74
	50	MOTA	1888	0	ASP	A	545	3.004	-15.388	0.657	1.00	49.39
		ATOM	1889	N	ALA	Α	546	4.874	-14.723	-0.401	1.00	51.82
		ATOM	1890	CA	ALA	Α	546		-15.095		1.00	
		ATOM	1891		ALA	A	546		-14.678		1.00	53.19
		ATOM	1892	C	ALA	A	546		-14.424		1.00	54.67
	55	ATOM	1893	0	ALA	A	546		-14.940		1.00	52.32
		ATOM	1894		HIS	A	547		-13.270		1.00	56.66
		ATOM	1895		HIS	A	547		-13.270		1.00	59.19
		ATOM	1896	CB	HIS	A	547		-12.520		1.00	56.70
	60	ATOM	1897	CG	HIS	A	547		-10.394		1.00	54.64
	UU	ATOM	1898	CD2	HIS	A	547		-10.506		1.00	53.92
		ATOM	1899	ND1	HIS	A	547	5.748			1.00	52.17
		ATOM	1900	CE1	HIS	A	547	7.004	-9.111	3.853	1.00	52.16

	5	ATOM	1901	NE2	HIS	Α	547	7.570	-9.698	2.814	1.00	51.90
		ATOM	1902	C	HIS	A	547	2.668	-12.940	3.306	1.00	62.77
		ATOM	1903	0	HIS	A	547	1.842	-12.120	3.707	1.00	63.24
		MOTA	1904	N	ARG	A	548	2.381	-14.224	3.133	1.00	68.37
		ATOM	1905	CA	ARG	A	548	1.053	-14.758	3.411	1.00	72.75
	10	ATOM	1906	CB	ARG	A	548		-14.864	2.113	1.00	73.73
		ATOM	1907	CG	ARG	A	548		-14.243	2.186	1.00	74.04
		ATOM	1908	CD	ARG	A	548		-12.728	2.297	1.00	74.50
		MOTA	1909	NE	ARG	A	548		-12.167	2.863	1.00	75.04
		ATOM	1910	CZ	ARG	A	548		-10.880	3.149	1.00	75.59
	15	ATOM	1911	NH1	ARG	A	548		-10.006	2.919	1.00	75.79
		MOTA	1912	NH2	ARG	A	548	-3.627	-10.464	3.662	1.00	76.00
		ATOM	1913	C	ARG	A	548	1.179	-16.133	4.051	1.00	74.94
		ATOM	1914	0	ARG	A	548	0.197	-16.697	4.549	1.00	75.15
		ATOM	1915	N	LEU	A	549	2.398	-16.665	4.063	1.00	76.49
	20	ATOM	1916	CA	LEU	A	549	2.669	-17.969	4.653	1.00	78.14
		ATOM	1917	CB	LEU	A	549		-18.986	3.557	1.00	77,55
		ATOM	1918	c	LEU	A	549		-17.870	5.619	1.00	79.13
		ATOM	1919	ō	LEU	Α	549	4.892	-17.317	5.215	1.00	80.40
		ATOM	1920	OXT	LEU	A	549		-18.341	6.769	1.00	79.46
	25	HETATM	1921	CP9	DES	A	600	5.390	-3.061	-	1.00	21.38
	23						600					
Ð		HETATM	1922	CP8	DES	A		5.834	-1.989		1.00	22.41
IU		HETATM	1923	CP7	DES	A	600	5.038	-0.714		1.00	21.32
(X)		HETATM	1924	CP6	DES	A	600	3.587	-0.864		1.00	25.87
كه أ		HETATM	1925	CP1	DES	A	600	2.987	-0.978		1.00	23.92
4	30	HETATM	1926	CP2	DES	A	600	1.597	-1.150		1.00	29.77
-		HETATM	1927	C _P 3	DES	A	600	0.842	-1.214	-4.871	1.00	31.40
4		HETATM	1928	OP3	DES	A	600	-0.506	-1.419	-4.824	1.00	33.36
1:		HETATM	1929	CP4	DES	Α	600	1.421	-1.099	-6.143	1.00	27.01
ت		HETATM	1930	CP5	DES	Α.	600	2.793	-0.929	-6.230	1.00	27.40
	35	HETATM	1931	C7	DES	A	600	5.671	0.461	-5.482	1.00	22.39
ليكم) 1.1		HETATM	1932	C6	DES	A	600	7.113	0.561	-5.809	1.00	21.75
₩		HETATM	1933	C5	DES	A	600	7.541		-7.131	1.00	19.97
		HETATM	1934	C4	DES	A	600	8.889		-7.477	1.00	23.81
P		HETATM	1935	C3	DES	A	600	9.814		-6.488	1.00	21.88
·D	40	HETATM	1936	03	DES	A	600	11.125		-6.839	1.00	22.32
	••	HETATM	1937	C2	DES	A	600	9.423		-5.161	1.00	19.74
		HETATM	1938	C1	DES	A	600	8.066		-4.838	1.00	21.25
							600				1.00	
		HETATM	1939	C8	DES	A		4.894	1.765			21.47
	45	HETATM	1940	C9	DES	A	600	4.959		-4.070	1.00	21.38
	45	HETATM	1941	CL	CL	A	601	14.781	-3.035-		1.00	24.10
		ATOM	1942	CB	SER	В	305	12.321	21.086		1.00	64.27
		ATOM	1943	С	SER	B	305	12.672	22.102		1.00	64.37
		MOTA	1944	0	SER	В	305	13.701	22.760		1.00	66.90
		ATOM	1945	N	SER	В	305	12.045	23.521		1.00	63.72
	50	ATOM	1946	CA	SER	В	305	11.875	22.187	26.251	1.00	64.21
		ATOM	1947	N	LEU	В	306	12.193	21.293	28.484	1.00	63.09
		ATOM	1948	CA	LEU	В	306	12.884	21.133	29.757	1.00	60.98
		ATOM	1949	CB	LEU	В	306	11.884	21.200		1.00	61.23
		ATOM	1950	CG	LEU	В	306	12.221	20.417		1.00	62.23
	55	ATOM	1951	CD1	LEU	В	306	13.304	21.144		1.00	62.56
		ATOM	1952	CD2	LEU	В	306	10.965	20.258		1.00	64.31
		ATOM	1953	CDZ			306	13.660			1.00	58.39
					LEU	В			19.819			
		ATOM	1954	0	LEU	В	306	14.570	19.654		1.00	58.56
	60	ATOM	1955	N	ALA	B	307	13.293	18.881		1.00	54.82
	60	ATOM	1956	CA	ALA	В	307	13.971	17.589		1.00	50.62
		ATOM	1957	CB	ALA	В	307	13.092	16.584		1.00	51.30
		ATOM	1958	С	ALA	В	307	15.303	17.719	28.122	1.00	46.84
								102				

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	5	MOTA	1959	0	ALA	В	307	16.196	16.885 28.274	1.00	45.62
		MOTA	1960	N	LEU	В	308	15.431	18.769 27.320	1.00	43,46
		ATOM	1961	CA	LEU	В	308	16.643	18.983 26.542	1.00	43.01
		ATOM	1962	CB	LEU	В	308	16.413	20.100 25.526	1.00	41.32
		ATOM	1963	CG	LEU	В	308	16.315	19.708 24.051	1.00	43.10
	10	ATOM	1964	CD1	LEU	В	308	15.942	18.239 23.903	1.00	40.51
	. •	ATOM	1965	CD2	LEU	В	308	15.287	20.602 23.375	1.00	39.80
		ATOM	1966	C	LEU	В	308	17.874	19.297 27.385	1.00	42.11
	•								•		
		MOTA	1967	0	LEU	В	308	19.000	19.102 26.932	1.00	44.34
	16	ATOM	1968	N	SER	В	309	17.669	19.775 28.608	1.00	40.88
	15	MOTA	1969	CA	SER	В	309	18.796	20.100 29.475	1.00	42.79
		ATOM	1970	CB	SER	B	309	18.562	21.447 30.163	1.00	41.25
		ATOM	1971	OG	SER	В	309	17.459	21.379 31.046	1.00	46.67
		MOTA	1972	C	SER	В	309	19.072	19.028 30.529	1.00	42.60
		ATOM	1973	0	SER	В	309	20.053	19.119 31.269	1.00	44.18
	20	MOTA	1974	N	LEU	В	310	18.217	18.012 30.596	1.00	39.44
		ATOM	1975	CA	LEU	В	310	18.394	16.936 31.569	1.00	37.62
		ATOM	1976	CB	LEU	В	310	17.205	15.969 31.499	1.00	38.84
		ATOM	1977	CG	LEU	В	310	16.216	15.873 32.668	1.00	42.43
		ATOM	1978	CD1	LEU	В	310	16.040	17.219 33.355	1.00	42.55
, can	25	ATOM	1979	CD2	LEU	В	310	14.881	15.380 32.138	1.00	39.69
		ATOM	1980	C	LEU	В	310	19.691	16.174 31.285	1.00	34.11
Ü		ATOM	1981	0	LEU	В	310	20.111	16.070 30.139	1.00	34.41
ľU		ATOM	1982	Ŋ	THR	В	311	20.339	15.662 32.326	1.00	34.04
Ü							311				
\ -	20	ATOM	1983	CA	THR	В		21.564	14.888 32.127	1.00	32.34
	30	ATOM	1984	CB	THR	В	311	22.434	14.824 33.399	1.00	31.75
-4		MOTA	1985	OG1	THR	В	311	21.724	14.116 34.420	1.00	36.20
الم		ATOM	1986	CG2	THR	В	311	22.782	16.212 33.893	1.00	31.05
āi		ATOM	1987	C	THR	В	311	21.145	13.460 31.790	1.00	32.37
	_	MOTA	1988	0	THR	В	311	19.967	13.117 31.899	1.00	28.16
لدا	35	MOTA	1989	N	ALA	В	312	22.106	12.628 31.396	1.00	33.23
1.1		MOTA	1990	CA	ALA	В	312	21.811	11.237 31.053	1.00	35.63
		ATOM	1991	CB	ALA	В	312	23.077	10.527 30.577	1.00	34.00
قيمية يتور		MOŢA	1992	C	ALA	В	312	21.210	10.489 32.240	1.00	34.29
		ATOM	1993	0	ALA	В	312	20.226	9.766 32.089	1.00	33.10
·Φ	40	ATOM	1994	N	ASP	В	313	21.800	10.665 33.419	1.00	33.90
		ATOM	1995	CA	ASP	В	313	21.304	9.994 34.615	1.00	34.19
		ATOM	1996	CB	ASP	В	313	22.258	10.219 35.788	1.00	42.09
		ATOM	1997	CG	ASP	В	313	23.494	9.358 35.700	1.00	44.87
		MOTA	1998	OD1	ASP	В	313	24.586	9.858 36.040	1.00	51.57
	45	ATOM	1999	OD2	ASP	В	313	23.377	8.184 35.290	1.00	46.79
	73			C							
		MOTA	2000		ASP	В	313	19.925	10.520 34.971	1.00	31.99
		ATOM	2001	0	ASP	В	313	19.056	9.768 35.426	1.00	32.03
		ATOM	2002	N	GLN	В	314	19.733	11.819 34.763	1.00	29.38
	50	MOTA	2003	CA	GLN	В	314	18.458	12.457 35.046	1.00	29.73
	50	ATOM	2004	CB	GLN	В	314	18.562	13.966 34.832	1.00	32.88
		MOTA	2005	CG	GLN	В	314	18.970	14.732 36.085	1.00	36.47
		ATOM	2006	CD	GLN	В	314	19.213	16.208 35.815	1.00	36.76
		ATOM	2007	OE1	GLN	В	314	19.300	16.634 34.664	1.00	38.79
		ATOM	2008	NE2	GLN	В	314	19.327	16.995 36.880	1.00	39.72
	55	ATOM	2009	С	GLN	В	314	17.409	11.873 34.116	1.00	29.11
		ATOM	2010	0	GLN	В	314	16.274	11.620 34.522	1.00	28.82
		ATOM	2011	N	MET	В	315	17.801	11.657 32.864	1.00	27.27
		ATOM	2012	CA	MET	В	315	16.900	11.079 31.872	1.00	30.41
		ATOM	2013	CB	MET	В	315	17.595	11.029 30.509	1.00	30.10
	60	ATOM	2013	CG	MET	В	315	16.787	10.345 29.421	1.00	38.02
	J	ATOM	2014								
				SD	MET	В	315	15.252	11.220 29.065	1.00	41.12
		MOTA	2016	CE	MET	В	315	15.890	12.835 28.611	1.00	39.32

	5	ATOM	2017	C	MET	В	315	16.490	9.665 32.311	1.00	27.99
		MOTA	2018	0	MET	В	315	15.302	9.351 32.396	1.00	26.60
		MOTA	2019	N	VAL	В.	316	17.481	8.823 32.598	1.00	27.26
		ATOM	2020	CA	VAL	В	316	17.229	7.447 33.027	1.00	24.54
		ATOM	2021	CB	VAL	В	316	18.554	6.708 33.351	1.00	26.22
	10	ATOM	2022	CGI	VAL	В	316	18.272	5.404 34.096	1.00	29.81
	••	ATOM	2023	eg2	LAV	B	316	19.302	6.410 32.074	1.00	29.75
		ATOM	2024		VAL	В	316		7.389 34.258	1.00	27.22
				C				16.326			
		ATOM	2025	0	VAL	В	316	15.397	6.579 34.318	1.00	25.55
		ATOM	2026	N	SER	B	317	16.601	8.243 35.242	1.00	24.40
	15	ATOM	2027	CA	SER	B	317	15.799	8.268 36.460	1.00	27.63
		ATOM	2028	CB	SER	B	317	16.358	9.294 37.451	1.00	31.68
		atom	2029	OG	SER	B	317	17.492	8.771 38.112	1.00	39.97
		MOTA	2030	C	SER	В	317	14.346	8.600 36.154	1.00	26.73
		ATOM	2031	0	SER	B	317	13.434	7.932 36,648	1,00	25.65
	20	ATOM	2032	N	ALA	В	318	14.135	9.634 35.342	1.00	24.19
		ATOM	2033	CA	ALA	В	318	12.786	10.049 34.969	1.00	24.17
		ATOM	2034	CB	ALA	В	318	12.850	11.250 34.022	1.00	21.44
		ATOM	2035	c	ALA	В	318	12.038	8.890 34.306	1.00	21.63
		ATOM	2036	Ö	ALA	В	318	10.902	8.598 34.648	1.00	20.25
	25	ATOM	2037	N	LEU	В	319	12.695	8.225 33.364	1.00	23.37
	23								7.102 32.652		
Ü		MOTA	2038	CA	LEU	В	319	12.098		1.00	25.42
ľ		ATOM	2039	CB	LEU	В	319	13.050	6.635 31.548	1.00	22.03
(D		ATOM	2040	CG	LEU	В	319	13.264	7.622 30.394	1.00	20.71
طماةٍ		ATOM	2041	CD1	LEU	В	319	14.146	6.995 29.331	1.00	23.60
· ~	30	ATOM	2042	CD2	LĘU	В	319	11.918	8.020 29.803	1.00	23.82
ė		MOTA	2043	C	LEU	В	319	11.729	5.926 33.564	1.00	27.26
أبرا		ATOM	2044	0	LEU	В	319	10.615	5.396 33.488	1.00	28.91
£i		MOTA	2045	N	LEU	В	320	12.656	5.516 34.426	1.00	26.58
		ATOM	2046	CA	LEU	В	320	12.399	4.405 35,334	1.00	26.73
ار. ا	35	MOTA	2047	CB	TEA	В	320	13.657	4.075 36.145	1.00	26.87
IJ		ATOM	2048	CG	LEU	В	320	14.846	3,460 35.398	1.00	26.15
L		ATOM	2049	CD1	LEU	В	320	16.053	3.375 36.330	1.00	28.04
		ATOM	2050	CD2	LEU	В	320	14.484	2.076 34.895	1.00	26.96
Ü		ATOM	2051	C	LEU	В	320	11.249	4.722 36.290	1.00	29.19
Ü	40	ATOM	2052	6	LEU	В	320	10.449	3.849 36.631	1.00	26.66
	•••	MOTA	2053	N	ASP	В	321	11.160	5,976 36.719	1.00	29.72
		MOTA	2054			В			6.371 37.647		
				CA	ASP		321	10.112			
		ATOM	2055	CB	ASP	В	321	10.494	7.683 38.336	1.00	36.60
	4.5	MOTA	2056	CG	ASP	B	321	11.407	7.461 39,535	1.00	46.11
	45	ATOM	2057	OD1	ASP	В	321	10.897	7.058 40.605	1.00	46.64
		MOTA	2058	OD2	ASP	В	321	12.635	7.676 39,402	1.00	45.98
		MOTA	2059	С	ASP	В	321	8.742	6.494 36.989	1.00	28.29
		MOTA	2060	0	ASP	B	321	7.715	6.432 37.661	1.00	27.19
		ATOM	2061	N	ALA	В	322	8.726	6.650 35.672	1.00	28.34
	50	ATOM	2062	CA	ALA	В	322	7.469	6.779 34.950	1.00	25.55
		ATOM	2063	CB	ALA	В	322	7.668	7.668 33.728	1.00	24.11
		ATOM	2064	C	ALA	В	322	6.911	5.420 34.523	1.00	22.80
		ATOM	2065	0	ALA	В	322	5.810	5.338 33.979	1.00	24.54
		ATOM	2066	N	GLU	В	323	7.662	4.355 34.781	1.00	20.16
	55	ATOM	2067	CA	GLU		323	7.229	3.021 34.386	1.00	
	J J					B					21.44
		ATOM	2068	CB	GLU	В	323	8.196	1.982 34.938	1.00	23.72
		ATOM	2069	CG	GLU	В	323	9.393	1.746 34.024	1.00	23.58
		ATOM	2070	CD	GLU	В	323	8.988	1.134 32.685	1.00	25.23
	C O	ATOM	2071	OE1	GLU	B	323	8.852	1.881 31.692	1.00	21.74
	60	ATOM	2072	OE2	GLU	В	323	8.809	-0.095 32.624	1.00	25.49
		ATOM		C	GLU	В	323	5.796	2.696 34.810	1.00	22.35
		MOTA	2074	0	GLU	В	323	5.409	2.926 35.951	1.00	22.34
								105			

	5	ATOM	2075	N	PRO	В	324	4.986	2.165 33.880	1,00	19.10
	•	ATOM	2076	CD	PRO	В	324	5.286	1.806 32.483	1.00	19.11
			2077	CA	PRO	В	324	3.607	1.839 34.242	1.00	22.04
		ATOM									
		ATOM.	2078	CB	PRO	B	324	2.919	1.658 32.893	1.00	21.96
		MOTA	2079	CG	PRO	В	324	4.015	1.137 32.015	1.00	24.13
	10	MOTA	2080	С	PRO	В	324	3.619	0.556 35.060	1.00	23,44
		ATOM	2081	0	PRO	В	324	4.590	-0.200 35.028	1.00	22.20
		ATOM	2082	N	PRO	В	325	2.540	0.287 35.801	1.00	24.88
		ATOM	2083	CD	PRO	В	325	1.299	1.068 35.945	1.00	26.67
		MOTA	2084	CA	PRO	В	325	2.520	-0.940 36.603	1.00	25.10
	15	ATOM	2085	CB	PRO	В	325	1.394	-0.691 37,595	1.00	27.09
		ATOM	2086	CG	PRO	В	325	0.448	0.205 36.854	1.00	26.87
		MOTA	2087	C	PRO	В	325	2.270	-2.192 35.776	1.00	25.77
		ATOM	2088	ō	PRO	В	325	1.853	-2.118 34.617	1.00	21.69
		MOTA	2089	N	ILE	В	326	2.538	-3.344 36.379	1.00	24.05
	20	ATOM	2099	CA	ILE	B	326	2.301	-4.620 35.722	1.00	22.51
	20					B	326	3.303	-5.688 36.185	1.00	25.81
		ATOM	2091	CB	ILE						
		ATOM	2092	CG2	ILE	В	326	3.011	-7.018 35.481	1.00	23.78
		ATOM	2093	CG1	ILE	В	326	4.729	-5,209 35.900	1.00	25.75
	0.5	ATOM	2094	CD1	ILE	В	326	5.241	-5.585 34.533	1.00	27.78
	25	ATOM	2095	С	ILE	В	326	0.893	-5.020 36.149	1.00	23.63
Ð		ATOM	2096	0	ILE	В	326	0.632	-5.231 37.332	1.00	24.81
ıŪ		ATOM	2097	N	LEU	В	327	-0.018	-5.104 35.188	1.00	19.44
Ű		ATOM	2098	CA	LEU	В	327	-1.399	-5.437 35.493	1.00	17.03
-L		ATOM	2099	CB	LEU	B	327	-2.336	-4.747 34.493	1.00	18.39
`~ <u>i</u>	30	ATOM	2100	CG	LEU	В	327	-2.201	-3.216 34.373	1.00	20.69
		ATOM	2101	CD1	LEU	В	327	-3.245	-2.679 33.406	1.00	14.87
		MOTA	2102	CD2	LEU	В	327	-2.384	-2.570 35.742	1.00	14.39.
		ATOM	2103	C	LEU	В	327	-1.662	-6.928 35.499	1.00	19.87
11 1000		ATOM	2104	Ō	LEU	В	327	-0.854	-7.722 35.014	1.00	20.90
	35	ATOM	2105	N	TYR	В	328	-2.803	-7.300 36.066	1.00	20.92
U	J J	ATOM	2106	CA	TYR	В	328	-3.202	-8.692 36.135	1.00	21.79
لدا		ATOM	2107	CB	TYR	В	328	-3.658	-9.050 37.550	1.00	22.91
The Carlo		ATOM	2107	CG	TYR	В	328	-2.515	-9.376 38.468	1.00	24.60
Q.									-10.696 38.677	1.00	25.93
Ū	40	ATOM	2109	CD1	TYR	В	328	-2.118			
	40	ATOM	2110	CE1	TYR	В	328	-1.034	-11.000 39.498	1.00	28.10
		ATOM	2111	CD2	TYR	B	328	-1.802	-8.362 39.103	1.00	29.46
		MOTA	2112	CE2	TYR	В	328	-0.716	-8.654 39.926	1.00	35.30
		MOTA	2113	CZ	TYR	В	328	-0.338	-9.973 40.117	1.00	32.59
		ATOM	2114	OH	TYR	B	328	0.739	-10.257 40.923	1.00	37.24
	45	ATOM	2115	С	TYR	В	328	-4.336	-8.944 35,168	1.00	22.25
		ATOM	2116	0	TYR	В	328	-5.115	-8.039 34.849	1.00	19.77
		ATOM	2117	N	SER	В	329	-4.420	-10.180 34.698	1.00	25.81
		MOTA	2118	CA	SER	B	329	-5.480	-10.571 33.787	1.00	29.39
		ATOM	2119	CB	SER	В	329	-5.002	-11.710 32.887	1.00	27.65
	50	ATOM	2120	OG	SER	В	329	-6.091	-12.329 32.233	1.00	28.98
		ATOM	2121	C	SER	В	329		-11.042 34.673	1.00	33.17
		ATOM	2122	Ō	SER	В	329		-11.157 35.888	1.00	32.52.
		ATOM	2123	N	GLU	В	330		-11.289 34.084	1.00	38.75
		ATOM	2124	CA	GLU	В	330		-11.776 34.859	1.00	44.91
	55	ATOM	2125	CB	GLU	В	330		-11.999 33.951	1.00	45.63
	55								-13.093 35.491	1.00	48.62
		ATOM	2126	C	GLU	В	330				
		ATOM	2127	0	GLU	В	330		-13.851 34.882	1.00	52.37
		ATOM	2128	N	TYR	В	331		-13.366 36.707	1.00	51.75
	60	ATOM	2129	CA	TYR	В	331		-14.596 37.396	1.00	55.25
	60	ATOM	2130	CB	TYR	В	331		-14,365 38.911	1.00	53.04
		ATOM	2131	CG	TYR	В	331		-13.668 39.440	1.00	50.70
		ATOM	2132	CD1	TYR	В	331	-10.880	-14.400 39.856	1.00	47.09

	5	ATOM	2133	CE1	TYR	В	331	-12.035	-13.762	40,292	1.00	46.43
		MOTA	2134	CD2	TYR	В	331	-9.842	-12.273	39.478	1.60	47.52
		ATOM	2135	CE2	TYR	В	331	-10.993	-11.629	39.913	1.00	43.98
		ATOM	2136	CZ	TYR	В	331	-12.086	-12.376	40.314	1.00	44.33
		ATOM	2137	OH	TYR	В	331	-13.239			1.00	45.31
	10	ATOM	2138	C	TYR	В	331	-9.528			1.00	60.11
		ATOM	2139	õ	TYR	В	331	-10.748			1.00	63.13
				и	ASP	В	332	-8.952			1.00	61.60
		ATOM	2140	-		_						
		ATOM	2141	CA	ASP	В	332		-18.124		1.00	63.58
	1.5	ATOM	2142	CB	ASP	В	332	-10.637			1.00	65.11
	15	ATOM	2143	CG	asp	B	332		-18.953		1.00	65.32
		atom	2144	OD1	asp	B	332		-20.136		1.00	63,69
		ATOM	2145	OD2	ASP	B	332		-18.602		1.00	63.61
		ATOM	2146	C	ASP	B	332	-8.707	-19,227	36.153	1.00	62.86
		ATOM	2147	0	ASP	В	332	-7.853	-19.056	35.287	1.00	62.26
	20	MOTA	2148	N	PRO	B	333	-8.811	-20.379	36.833	1.00	63.96
	• •	ATOM	2149	CD	PRO	В	333		-20.690		1.00	64.24
		ATOM	2150	CA	PRO	В	333		-21.503		1.00	64.24
		ATOM	2151	CB	PRO	В	333		-22.325		1.00	64.70
		ATOM	2152	CG	PRO	В	333	-9.410			1.00	65.00
	25	ATOM	2153	C	PRO	В	333	-8.180			1.00	63.90
13	23							-7.384				
Û		ATOM	2154	0	PRO	В	333				1.00	63.70
ľ		ATOM	2155	N	THR	В	334	-9.303			1.00	63.83
Ü		ATOM	2156	CA	THR	В	334	-9.649			1.00	63.77
æ\$		ATOM	2157	CB	THR	В	334	-11.065			1.00	64.63
14	30	MOTA	2158	OG1	THR	В	334	-11.132			1.00	65.95
14		MOTA	2159	CG2	THR	В	334	-12.102	-22.817	34.036	1.00	65.09
,4		ATOM	2160	Ç	THR	В	334	-8.634	-22.499	32.388	1.00	62.62
		ATOM	2161	0	THR	В	334	-8.931	-21.774	31.437	1.00	60.15
ši želej		ATOM	2162	N	ARG	В	335	-7.432	-23.043	32.553	1.00	63.14
	35	ATOM	2163	CA	ARG	В	335	-6.324	-22.820	31.633	1.00	60.70
لدا		ATOM	2164	CB	ARG	В	335		-23.667		1.00	58.73
IJ		ATOM	2165	C	ARG	B	335		-23.086		1.00	59.71
		ATOM	2166	ō	ARG	В	335		-22.298		1.00	62.33
ú		ATOM	2167	N	PRO	В	336		-24.194		1.00	55.25
Ü	40	MOTA	2168	CD	PRO	В	336	-7.938			1.00	53.53
	40		2169		PRO	В	336	-7.698				50.10
		ATOM		CA							1.00	-
		ATOM	2170		PRO	В	336		-25.799			49.70
		ATOM	2171		PRO	В	336	•	-26.372		1.00	50.71
	4.5	ATOM		C	PRO	В	336		-23.324		1.00	44.54
	45	ATOM	2173	O	PRO	В	336		-23.342		1.00	44.14
		ATOM	2174	N	PHE	В	337	-8.007			1,00	39.18
		MOTA	2175	ÇA	PHE	В	337	-8.764	-21.223	26.742	1.00	38.25
		ATOM	2176	CB	PHE	В	337	-7.850	-20.003	26.567	1.00	36.98
		ATOM	2177	CG	PHE	В	337	-7.229	-19.517	27.846	1.00	36.81
	50	ATOM	2178	CD1	PHE	В	337	-5.846	-19.511	28.002	1.00	38.89
		ATOM	2179	CD2	PHE	В	337	-8.023	-19.062	28.893	1.00	35.97
		MOTA	2180	CE1	PHE	В	337		-19.059		1.00	36.85
		ATOM	2181	CE2	PHE	В	337		-18.608		1.00	37.15
		ATOM	2182	CZ	PHE	В	337		-18.607		1.00	38.40
	55			CZ								
	J J	ATOM	2183	_	PHE	В	337		-21.535		1.00	36.81
		ATOM	2184	0	PHE	В	337		-22.399		1.00	36,26
		ATOM	2185	N	SER	B	338		-20.828		1.00	35.85
		ATOM		CA	SER	В	338		-20.981		1.00	34.76
		ATOM	2187	CB	SER	В	338		-20.948		1.00	34.85
	60	ATOM	2188	OG	SER	В	338		-19.621		1.00	33.53
		MOTA	2189	C	SER	B	338	-10.761	-19.761	23.037	1.00	34.99
•		MOTA	2190	0	SER	В	338	-10.143	-18.855	23.591	1.00	34.32

	5	ATOM	2191	N	GLU	В	339	-11.075	-19.722	21.750	1.00	33.01
		MOTA	2192	CA	GLU	В	339	-10.682	-18.579	26.950	1.00	33.94
		ATOM	2193	CB	GLU	B	339	-11.146	-18.737	19.501	1.00	33.79
		ATOM	2194	CG	GLU	В	339	-10.758	-17.553	18.623	1.00	39.11
		ATOM	2195	CD	GLU	В	339	-10.865	-17.852	17.137	1.00	43.17
	10	MOTA	2196	QE1	GLU	В	339	-11.990	-17.785	16.600	1.00	45.28
		ATOM	2197	OE2	GLU	В	339	-9.824	-18.152	16.510	1.00	39.19
		ATOM	2198	С	GLU	В	339	-11.265	-17.295	21.531	1.00	34.28
		ATOM	2199	0	GLU	В	339		-16.283		1.00	33.65
		ATOM	2200	N	ALA	В	340		-17.339		1.00	31.12
	15	ATOM	2201	CA	ALA	. B	340		-16.164		1.00	29.10
		ATOM	2202	CB	ALA	В	340	-14.696			1.00	33.84
		ATOM	2203	c	ALA	В	340		-15.731		1.00	28.98
		ATOM	2204	0	ALA	В	340		-14,541		1.00	30.48
		ATOM	2205	N	SER	В	341	-12.407			1.00	26.66
	20	ATOM	2206	CA	SER	В	341	-11.882			1.00	24.26
	20	ATOM	2207	CB	SER	В	341	-11.867			1.00	27.04
		ATOM	2208	OG	SER	В	341	-10.851			1.00	33.84
		ATOM	2209	C	SER	В	341	-10.479			1.00	23.97
•							341	-10.171				21.56
	25	ATOM	2210	O N	SER	В	341	-9.631			1.00	26.83
	23	ATOM ATOM	2211		MET	В	342		-15.865			
Ü			2212	CA	MET	В	342 342				1.00	27.24
ľŪ		ATOM	2213	CB	MET	В	342 342		-16.758 -16.300		1.00	30.45
		ATOM	2214	CG	MET	В					1.00	35.35 44.57
쓰	30	ATOM	2215	SD CE	MET	В	342 342		-17.667		1.00	
·•	30	ATOM	2216 2217	CE	MET MET	B B	342		-17.341 -14.448		1.00	41.37 25.31
=		ATOM		-			342		-13.541			
**		ATOM	2218	0	MET	В	342				1.00	26.67
E)		ATOM	2219	N	MET	В			-14.278		1.00	25.75
	35	ATOM	2220	CA	MET	В	343		-12.979		1.00	25.47
L.	33	ATOM	2221	CB	MET	В	343		-13.088		1.00	23.51
ليرا		ATOM	2222	CG	MET	В	343		-13.618		1.00	28.86
		ATOM	2223	SD	MET	В	343		-12.456		1.00	29.25
ŧΦ		ATOM	2224	CE	MET	В	343		-11.015		1.00	28.74
ı	40	ATOM	2225	•	MET	B	343		-11,966		1.00	25.37
	40	ATOM ATOM	2226 2227	N O	MET GLY	B B	343 344				1.00	24.98
		ATOM			GLY				-12.403 -11.526	•	1.00	23.91
		ATOM	2228	CA		B	344		,	•		22.43
		ATOM	2229 2230	0	GLY GLY	B B	344 344	-10.313	-11.103 -9.934		1.00	22.06 20.87
	45	ATOM	2231	N	LEU	B	345		-12.048		1.00	19.36
	75	ATOM	2232	CA	LEU	В	345		-11.748		1.00	25.74
							345					26.78
		ATOM	2233	CB	LEU	В			-13.040		1.00	
		ATOM	2234	CG	LEU	В	345		-14.010		1.00	30.04
	50	ATOM		CD1	LEU	В	345		-15.357		1.00	28.39
	50	ATOM		CD2	LEU	В	345		-13.443		1.00	29.93
		ATOM	2237	C	LEU	В	345		-10.822		1.00	23.24
		ATOM	2238	0	LEU	В	345		-9.865		1.00	23.43
		ATOM		N	LEU	В	346		-11.108		1.00	21.92
	55	ATOM		CA	LEU	В	346		-10.303		1.00	22.71
	22	ATOM	2241	CB	LEU	В	346		-10.962		1.00	23.17
		ATOM	2242	CG	LEU	В	346		-12.331		1.00	20.66
		ATOM	2243	CD1	LEU	В	346		-12.916		1.00	18.75
		ATOM	2244	CD2	LEU	В	346		-12.188		1.00	20.84
	60	ATOM	2245	C	LEU	В	346	-6.304	-8.873		1.00	22.99
	ou .	ATOM	2246	0	LEU	В	346	-5.540			1.00	22.07
		ATOM	2247	N	THR	B B	347	-7.516 -7.987			1.00	20.53
		ATOM	2248	CA	THR	D	347	-/.98/	-7.357	∠₩.000	1.00	21.89

	5	MOTA	2249	CB	THR	В	347	-9.152	-7.388 23.601	1.00	21.65
		ATOM	2250	OG1	THR	В	347	-10.218	-8.190 24.123	1.00	19.65
		ATOM	2251	CG2	THR	В	347	-8.676	-7.955 22.262	1.00	22.01
		ATOM	2252	C	THR	В	347	-8.426	-6.590 25.853	1.00	23,60
		ATOM	2253	0	THR	В	347	-8.358	-5.357 25.883	1.00	20.31
	10										
	10	MOTA	2254	N	ASN	В	348	-8.884	-7.314 26.874	1.00	22.27
		MOTA	2255	CA	ASN	B	348	-9.293	-6.667 28.114	1.00	23.99
		MOTA	2256	CB	ASN	В	348	-10.008	-7.642 29.056	1.00	22.32
		ATOM	2257	CG	ASN	B	348	-10.342	-7.022 30.398	1.00	28.26
		MOTA	2258	OD1	ASN	В	348	-9.478	-6.746 31.216	1.00	27.14
	15	ATOM	2259	ND2	ASN	В	348	-11.647	-6.764 30.625	1.00	27.02
		ATOM	2260	C	ASN	B	348	-8.035	-6.120 28.798	1.00	19.48
		ATOM	2261	õ	ASN	В	348	-8.014	-4.991 29.271	1.00	18.26
						В	349	-6.984	-6.931 28.832	1.00	19.07
		ATOM	2262	N	LEU						
	••	ATOM	2263	CA	LEU	B	349	-5.724	-6.516 29.446	1.00	20.37
	20	MOTA	2264	CB	LEU	B	349	-4.716	-7.674 29.434	1.00	18.21
		ATOM	2265	CG	LEU	В	349	-3.297	-7.316 29.889	1.00	18.24
		ATOM	2266	CD1	LEU	B	349	-3.323	-6.904 31.356	1.00	12.44
		MOTA	2267	CD2	LEU	В	349	-2.370	-8.504 29.672	1.00	21.28
		ATOM	2268	C	LEU	В	349	-5.131	-5,307 28.718	1.00	19.92
: 1255	25	ATOM	2269	Ö	LEU	В	349	-4.738	-4,322 29.349	1.00	16.56
Ü		ATOM	2270	N	ALA	В	350	-5.067	-5.391 27.391	1.00	16.67
·D		ATOM					350				
Iu		•	2271	CA	ALA	В		-4.529	-4.308 26.578	1.00	17.11
(X)		ATOM	2272	CB	ALA	В	350	-4.587	-4.690 25.095	1.00	14.15
j =		ATOM	2273	С	ALA	В	350	-5.272	-2.988 26.805	1.00	17.92
1	30	MOTA	2274	0	ALA	В	350	-4.650	-1.926 26.904	1.00	18.71
		MOTA	2275	N	ASP	В	351	-6.600	-3.053 26.857	1.00	17.51
		ATOM	2276	CA	ASP	В	351	-7.409	-1.856 27.074	1.00	16.57
		ATOM	2277	CB	ASP	В	351	-8.902	-2.202 27.041	1.00	18.97
#! :****		ATOM	2278	CG	ASP	В	351	-9.785	-0.974 26.858	1.00	21.80
	35	ATOM	2279	OD1	ASP	В	351	-9.660	-0.292 25.824	1.00	24.62
لدا	<i></i>	ATOM	2280	OD2	ASP	В	351	-10.604	-0.682 27.754	1.00	22.78
ٔ لیا				C		В	351	-7.064	-1.228 28.415		16.81
		ATOM	2281		ASP					1.00	
Ü		ATOM	2282	0	ASP	В	351	-6.963	-0.009 28.534	1.00	15.75
Ū	4.8	MOTA	2283	N	ARG	В	352	-6.894	-2.056 29.438	1.00	13.97
- 043	40	ATOM	2284	CA	ARG	В	352	-6.552	-1.509 30.742	1.00	16.09
		MOTA	2285	CB	ARG	В	352	-6.728	-2.571 31,833	1.00	15.78
		MOTA	2286	CG	ARG	В	352	-8.189	-2.819 32.189	1.00	17.93
		ATOM	2287	CD	ARG	В	352	-8.323	-3.882 33,279	1.00	19.84
		ATOM	2288	NE	ARG	В	352	-8.010	-5.222 32.785	1.00	21.36
	45	ATOM	2289	CZ	ARG	В	352	-7.187	-6,075 33.387	1.00	21.18
		ATOM		NH1	ARG	В	352	-6.579	-5.741 34.516	1.00	20.51
		ATOM		NH2	ARG	В	352	-6.980	-7.275 32.864	1.00	28.51
									· ·		
		ATOM		C	ARG	В	352	-5.123	-0.975 30.728	1.00	15.81
	50	ATOM	2293	0	ARG	B	352	-4.835	0.057 31.339	1.00	15.61
	50	ATOM	2294	N	GLU	В	353	-4.231	-1.665 30.019	1,00	15.45
		MOTA	2295	CA	GLU	В	353	-2.838	-1.228 29.935	1.00	16.59
		ATOM	2296	CB	GLU	В	353	-1.990	-2.243 29.168	1.00	14.64
		ATOM	2297	CG	GLU	В	353	-1.554	-3.456 29.973	1.00	18.23
		ATOM	2298	CD	GLU	В	353	-0.620	-4.355 29.176	1.00	22.72
	55	ATOM	2299		GLU	В	353	-1.099	-5.078 28.275	1.00	21.94
		ATOM		OE2	GLU	B	353	0.599	-4.324 29.442	1.00	24.41
		ATOM	2300	C			353 353	-2.729	0.119 29.219	1.00	15.85
					GLU	В					
		ATOM	2302	0	GLU	В	353	-1.872	0.939 29.540	1.00	13.76
	CO	ATOM	2303	N	LEU	В	354	-3.594	0.335 28.235	1.00	12.93
	60	ATOM	2304	CA	LEU	В	354	-3.556	1.575 27.472	1.00	15.33
		ATOM	2305	CB	LEU	В	354	-4.616	1.534 26.360	1.00	16.44
		MOTA	2306	CG	LEU	В	354	-4.174	0.750 25.112	1.00	17.03

	5	MOTA	2307	CD1	LEU	В	354	-5.373	0.509 24.189	1.00	16.70
		ATOM	2308	CD2	LEU	В	354	-3.069	1.531 24.384	1.00	14.52
		ATOM	2309	C	LEU	В	354	-3.747	2.805 28.361	1.00	12.78
		ATOM	2310	0	LEU	B	354	-3.123	3.850 28.141	1.00	14.28
		MOTA	2311	N	VAL	B	355	-4.600	2.682 29.369	1.00	12.60
	10	MOTA	2312	CA	VAL	В	355	-4.844	3.791 30.279	1.00	16.78
		ATOM	2313	CB	VAL	В	355	-5.925	3.429 31.327	1.00	16.84
		ATOM	2314	CG1	VAL	В	355	-6.070	4.561 32.344	1.00	19.88
		ATOM	2315	CG2	VAL	В	355	-7.254	3.187 30.639	1.00	19.33
		MOTA	2316	C	VAL	В	355	-3.533	4.161 30.986	1.00	19.17
	15	MOTA	2317	0	VAL	В	355	-3.158	5.328 31.049	1.00	17.30
		ATOM	2318	N	HIS	В	356	-2.826	3.160 31.499	1.00	19.68
		ATOM	2319	CA	HIS	В	356	-1.559	3.418 32.177	1.00	20.64
		ATOM	2320	CB	HIS	В	356	-1,110	2.174 32.945	1.00	21.03
		MOTA	2321	CG	HIS	В	356	-2.018	1.818 34,085	1.00	22.88
	20	ATOM	2322	CD2	HIS	В	356	-3.128	1.045 34.135	1.00	21.70
		ATOM	2323	ND1	HIS	В	356	-1.838	2.312 35.358	1.00	19.24
		ATOM	2324	CE1	HIS	В	356	-2.802	1.860 36.145	1.00	18.84
		MOTA	2325	NE2	HIS	В	356	-3.598	1.088 35.426	1.00	17.92
		ATOM	2326	C	HIS	В	356	-0.479	3.861 31.184	1.00	19.67
	25	ATOM	2327	0	HIS	В	356	0.424	4.614 31.547	1.00	19.61
Ō		MOTA	2328	N	MET	В	357	-0.566	3.413 29.931	1.00	14.92
ΙŪ		MOTA	2329	CA	MET	В	357	0.428	3.830 28.939	1.00	15.13
Ø		ATOM	2330	CB	MET	В	357	0.239	3.099 27.604	1.00	13.94
į.L		ATOM	2331	CG	MET	В	357	1.149	3.631 26.476	1.00	14.71
1	30	MOTA	2332	SD	MET	В	357	0.747	3.014 24.826	1.00	17.75
		MOTA	2333	CE	MET	В	357	0.746	1.222 25.122	1.00	15.21
1		ATOM	2334	C	MET	В	357	0.316	5.334 28.699	1.00	14.94
21		MOTA	2335	0	MET	В	357	1.319	6.031 28.560	1.00	17.02
		MOTA	2336	N	ILE	В	358	-0.909	5.839 28.659	1.00	18.01
	35	ATOM	2337	CA	ILE	В	358	-1.122	7.263 28.423	1.00	19.77
i.i		MOTA	2338	CB	ILE	В	358	-2.634	7.577 28.287	1.00	23.11
		MOTA	2339	CG2	ILE	В	358	-2.879	9.080 28.450	1.00	25.00
		ATOM	2340	CG1	ILE	В	358	-3.137	7.105 26.913	1.00	24.19
i		ATOM	2341	CD1	ILE	В	358	-4.600	6.653 26.890	1.00	20.17
1607	40	ATOM	2342	C	ILE	В	358	-0.501	8.100 29.550	1.00	22.93
		MOTA	2343	0	ILE	В	358	0.080	9.153 29.299	1.00	23.33
		MOTA	2344		ASN	В	359	-0.619	7.631 30.790	1.00	22.34
		ATOM	2345	CA	ASN	В	359	-0.029	8,341 31.924	1.00	23.24
	4-	ATOM	2346	CB	ASN	В	359	-0.480	7.726 33.224	1.00	25.10
	45	ATOM	2347	CG	ASN	В	359	-1.831	8.171 33.649	1.00	32.65
		ATOM	2348	OD1	ASN	В	359	-2.421	9.069 33.042	1.00	32.98
		ATOM	2349	ND2	ASN	В	359	-2.364	7.549 34.691	1.00	33.87
		MOTA	2350	C	ASN	В	359	1.473	8.306 31.837	1.00	24.77
	.	ATOM	2351	0	ASN	В	359	2.152	9.285 32.149	1.00	24.19
	50	ATOM	235 2	N	TRP	В	360	1.995	7.149 31.438	1.00	20.82
		ATOM	2353	CA	TRP	В	360	3.439	6.965 31.310	1.00	19.29
		MOTA	2354	CB	TRP	В	360	3.754	5.524 30.878	1.00	18.59
		ATOM	2355	CG	TRP	В	360	5.085	5.363 30.176	1.00	18.21
		ATOM	2356	CD2	TRP	В	360	5.310	5.308 28.756	1.00	14.38
	55	ATOM	2357	CE2	TRP	В	360	6,698	5.129 28.561	1.00	13.42
		ATOM	2358	CE3	TRP	В	360	4.475	5.392 27.633	1.00	15.52
		ATOM	2359	CD1	TRP	В	360	6.306	5.221 30.762	1.00	13.34
		ATOM	2360	NEl	TRP	В	360	7.283	5.078 29.800	1.00	16.05
	.	ATOM	2361	CZ2	TRP	В	360	7.272	5.032 27.288	1.00	16.84
	60	MOTA	2362	CZ3	TRP	В	360	5.045	5.296 26.363	1.00	15.11
		MOTA	2363	CH2	TRP	В	360	6.431	5.115 26.202	1.00	16.12
		ATOM	2364	С	TRP	В	360	3.979	7.939 30.273	1.00	20.13
								190			

	5	ATOM '	2365	0	TRP	В	360	4.991	8.606 30.497	1.00	17.26
		ATOM	2366	N	ALA	В	361	3.295	8.012 29.135	1.00	19.34
		ATOM	2367	CA	ALA	В	361	3.708	8.900 28.051	1.00	22.01
		ATOM	2368	CB	ALA	В	361	2.682	8.855 26.921	1.00	19.53
		ATOM	2369	C	ALA	B	361	3.883	10.336 28.552	1.00	22.39
	10	ATOM	2370	0	ALA	В	361	4.858	11.005 28.210	1.00	19.57
	~ ~	ATOM	2371	N	LYS	В	362	2.932	10.794 29.361	1.00	21.96
		ATOM	2372	CA	LYS	В	362	2.966	12.139 29.923	1.00	26.45
		AŢOM	2373	CB	LYS	В	362	1.741	12.363 30.811	1.60	29.79
		ATOM	2374	CG	LYS	В	362	0.426	12.417 30.064	1.00	33.57
	15	ATOM	2375	CD	LYS	В	362	-0.563	13.304 30,805	1.00	36.83
	13	ATOM	2376	CE	LYS	B	362	-1.620	12.490 31.512	1.00	36.89
		,	2377				362	-2.873	13.276 31.664	1.00	39.07
		ATOM		,NZ	LYS	B			12.379 30,757		
		MOTA	2378	Č	LYS	B	362	4.223		1.00	27.77
	30	MOTA	2379	0	LYS	B	362	4.661	13.517 30.922	1.00	26.93
	20	ATOM	2380	N	ARG	В	363	4.805	11.302 31.278	1.00	26.61
	•	ATOM	2381	CA	ARG	В	363	5.996	11.414 32.109	1.00	27.74
		ATOM	2382	CB	ARG	В	363	5.887	10.457 33.298	1.00	28.93
		ATOM	2383	CG	ARG	В	363	4.650	10.704 34.158	1.00	36.07
		ATOM	2384	CD	ARG	В	363	4.569	9.745 35.344	1.00	42.83
	25	ATOM	2385	NE	ARG	В	363	4.477	8.344 34.928	1.00	49.79
Ø		MOTA	2386	CZ	ARG	В	363	3.395	7.582 35.080	1.00	51.48
IJ		ATOM	2387	NH1	ARG	В	363	2.300	8.081 35,648	1.00	52.17
Ü		MOTA	2388	NH2	ARG	В	363	3.405	6.316 34.668	1.00	40.24
i al		MOTA	2389	C	ARG	В	363	7.308	11,190 31.367	1.00	25.80
	30	ATOM	2390	0	ARG	В	363	8.374	11.183 31.975	1.00	29.36
d		ATOM	2391	N	VAL	В	364	7.231	11.009 30.053	1.00	24.28
		ATOM	2392	CA	VAL	В	364	8.431	10.823 29.248	1.00	21.87
Fi -		ATOM	2393	CB	VAL	B	364	8.116	10.048 27.947	1.00	21.84
		ATOM	2394	CG1	VAL	B	364	9.267	10.184 26.968	1.00	15,85
Į,	35	ATOM	2395	CG2	VAL	В	364	7.860	8.560 28.268	1.00	16.24
IJ		ATOM	2396	C	VAL	В	364	8.925	12.241 28.923	1.00	28.14
		ATOM	2397	0	VAL	В	364	8.219	13.023 28.285	1.00	24.24
Ü		ATOM	2398	N	PRO	В	365	10.141	12.591 29.375	1.00	28.57
		ATOM	2399	CD	PRO	В	365	11.061	11.726 30.137	1.00	30.58
Ū	40	ATOM	2400	CA	PRO	В	365	10.719	13.919 29.138	1.00	32.16
		ATOM	2401	CB	PRO	В	365	12.189	13.739 29.507	1.00	32.70
		ATOM	2402	CG	PRO	В	365	12.170	12.671 30.545	1.00	33.35
		ATOM	2403		PRO	В	365	10.546	14.464 27,726	1.00	32.22
		ATOM	2404	0	PRO	В	365	11.056	13.897 26.766	1.00	37.04
	45	ATOM	2405	N	GLY	В	366	9.821	15.570 27.609	1.00	34.09
		ATOM	2406	CA	GLY	В	366	9.612	16.182 26.310	1.00	32.54
		ATOM	2407	C	GLY	В	366	8.241	15.969 25.700	1.00	33.46
		ATOM	2408	Ŏ	GLY	В	366	7.791	16.779 24.886	1.00	33.73
		ATOM	2409	N	PHE	В	367	7.564	14.895 26.096	1.00	31.08
	50	ATOM	2410	CA	PHE	В	367	6.250	14,593 25.542	1.00	28.60
	J U	ATOM	2411	CB	PHE	В	367	5.745	13.244 26.058	1.00	25.96
		ATOM	2412	CG	PHE	В	367	4.629	12.671 25.239	1.00	22.75
		ATOM	2413	CD1	PHE	В	367	3.313	12.771 25.669	1,00	22.62
		ATOM		CD2	PHE	В	367	4.897	12.025 24.033	1.00	22.29
	55	ATOM	2415	CE1	PHE	В	367		12.233 24.914	1.00	25.63
	J J			CE2		В	367 367	2.272	11.486 23.272	1.00	20.82
		ATOM	2416		PHE			3.867			
		ATOM	2417	CZ	PHE	В	367	2.553	11.588 23.711	1.00	25.50
		ATOM	2418	C	PHE	В	367	5.178	15.646 25.781	1.00	26.79
	60	ATOM	•	0	PHE	В	367	4.458	16.001 24.854	1.00	23.37
	00	ATOM	2420	N	VAL	B	368	5.049	16.143 27.009	1.00	31.26
		ATOM	2421	CA	VAL	В	368	4.020	17.151 27.277	1.00	35.71
		ATOM	2422	CB	VAL	В	368	3.817	17.412 28.795	1.00	35.98

	5	MOTA	2423	CG1	VAL	В	368	2.944	16.320 29.392	1.00	37.64
		ATOM	2424	CG2	VAL	B	368	5.157	17.495 29.508	1.60	35.81
		ATOM	2425	C	VAL	В	368	4.328	18.482 26.598	1.00	35.87
		ATOM	2426	0	VAL	В	368	3.450	19.330 26.457	1.00	37.71
		ATOM	2427	N	ASP	В	369	5.572	18.665 26.175	1.00	35.49
	10	ATOM	2428	CA	ASP	В	369	5.950	19.904 25.503	1.00	36.54
	10	ATOM	2429	CB	ASP	B	369	7.466	19.963 25.309	1.00	39.79
					ASP	-		8.213	20.169 26.615	1.00	44.33
		ATOM	2430	CG		В	369				
		ATOM	2431	OD1	ASP	В	369	9.409	19.807 26.684	1.00	48.45
		ATOM	2432	OD2	ASP	В	369	7.604	20.693 27.572	1.00	43.27
	15	ATOM	2433	C	ASP	В	369	5.248	19.997 24.149	1.00	34.49
		ATOM	2434	0	ASP	В	369	5.131	21.074 23.571	1.00	34.51
		MOTA	2435	N	LEU	В	370	4.776	18.859 23.653	1.00	30.97
		ATOM	2436	CA	LEU	B	370	4.086	18.809 22.370	1.00	29.80
		ATOM	2437	CB	LĘU	В	370	4.145	17.389 21.799	1.00	27.27
	20	MOTA	2438	CG	LEU	В	370	5.522	16.733 21.688	1.00	28.07
		ATOM	2439	CD1	LEU	В	370	5.353	15.242 21.400	1.00	30.38
		ATOM	2440	CD2	LEU	В	370	6.316	17.396 20.574	1.00	22.82
		ATOM	2441	C	LEU	В	370	2.628	19.218 22.521	1.00	28.04
		ATOM	2442	ō	LEU	В	370	2.066	19.151 23.611	1.00	29.71
1000	25	ATOM	2443	N	THR	В	371	2.011	19.645 21.425	1.00	28.70
		ATOM	2444	CA	THR	В	371	0.602	20.014 21.474	1.00	30.31
Ď		ATOM	2445	CB	THR	В	371	0.150	20.690 20.163	1.00	31.96
IJ		ATOM	2446	OG1	THR	В	371	0.284	19.763 19.080	1.00	29.49
(X)									-		
4	20	ATOM	2447	CG2	THR	В	371	0.991	21.930 19.878	1.00	29,98
4	30	ATOM	2448	C	THR	В	371	-0.208	18.726 21.666	1.00	30.59
i =		ATOM	2449	0	THR	В	371	0.300	17.624 21.431	1,00	27.10
'led		ATOM	2450	N	LEU	В	372	-1.461	18.863 22.087	1.00	27.65
21		ATOM	2451	CA	LEU	В	372	-2.323	17.702 22.303	1.00	30.86
		MOTA	2452	CB	LEU	B	372	-3.722	18.147 22,737	1.00	30.11
لدا	35	MOTA	2453	CG	LEU	В	372	-4.715	17.006 22.960	1.00	32,80
W		MOTA	2454	CD1	LEU	В	372	-4.231	16.147 24.126	1.00	34,10
1		MOTA	2455	CD2	LEU	В	372	-6.105	17.562 23.246	1.00	31.16
ا ق		ATOM	2456	Ċ	LEU	В	372	-2.437	16.863 21.034	1.00	31.77
Ğ		ATOM	2457	0	LEU	В	372	-2.417	15.629 21,078	1.00	27.06
' ''	40	ATOM	2458	N	HIS	В	373	-2.564	17.548 19.905	1.00	31.30
		ATOM	2459	CA	HIS	B	373	-2.685	16.888 18.614	1.00	31.35
		ATOM	2460	CB	HIS	В	373	-2.844	17.935 17.503	1.00	34.30
		MOTA	2461	ÇG	HIS	В	373	-2.503	17.430 16.132	1.00	41.27
		ATOM	2462	CD2	HIS	В	373	-3.293	17.105 15.079		42.50
	45	ATOM	2463	ND1	HIS	В	373	-1.205	17.220 15.715	1.00	43.69
		ATOM	2464	CE1	HIS	В	373	-1.210	16.787 14.465	1.00	48.87
		ATOM	2465	NE2	HIS	В	373	-2.465	16.708 14.056	1.00	43.72
		ATOM	2466	C	HIS	В	373	-1.468	16.012 18.337	1.00	28.29
		ATOM	2467		HIS		373	-1.610	14.878 17.897	1.00	30.21
	50			0		В					
	30	ATOM	2468	N	ASP	В	374	-0.275	16.541 18.589	1.00	28.85
		ATOM	2469	CA	ASP	В	374	0.950	15.783 18.350	1.00	28.28
		ATOM	2470	CB	ASP	В	374	2.178	16.678 18.535	1.00	31.33
		MOTA	2471	CG	ASP	В	374	2,433	17.577 17.333	1.00	39.07
		ATOM	2472	OD1	ASP	В	374	3.195	18.557 17.478	1.00	40.60
	55	ATOM	2473	OD2	ASP	B	374	1.874	17.305 16.246	1.00	38.64
		ATOM	2474	C	ASP	В	374	1.029	14.592 19.303	1.00	29.05
		ATOM	2475	0	ASP	В	374	1.432	13.494 18.908	1.00	24.26
		ATOM	2476	N	GLN	В	375	0.642	14.814 20.556	1.00	24.52
		ATOM	2477	CA	GLN	В	375	0.667	13.749 21.547	1.00	27.37
	60	ATOM	2478	CB	GLN	В	375	0.213	14.270 22,901	1.00	26.66
		ATOM	2479	CG	GLN	В	375	1,164	15.236 23.563	1.00	29.74
		ATOM	2480	CD	GLN	В	375	0.623	15.691 24.890	1.00	33.13
						_		103	_ :		

	5	MOTA	2481	OE1	GLN	В	375	-0.044	14.953 25.602	1.00	32.82
		MOTA	2482	NE2	GLN	В	375	0.895	16.953 25.236	1.00	33.98
		ATOM	2483	C	GLN	В	375	-0.259	12.630 21.104	1.00	24.52
		MOTA	2484	0	GLN	В	375	0.074	11.451 21.221	1.00	23.56
		ATOM	2485	N	VAL	В	376	-1.426	13.013 20.599	1.00	21.87
	10	ATOM	2486	CA	VAL	В	376	-2.409	12.055 20.140	1.00	23.44
		MOTA	2487	CB	VAL	В	376	-3.718	12.760 19.717	1.00	22.09
		ATOM	2488	CG1	VAL	В	376	-4.572	11.823 18.877		24.14
		ATOM	2489	CG2	VAL	B	376	-4.486	13.192 20.954	1.00	16.96
		ATOM	2490	c	VAL	В	376	-1.852	11.257 18.965	1.00	24.15
	15	ATOM	2491	6	VAL	В	376	-1.949	10.032 18.938	1.00	22.26
		ATOM	2492	N	HIS	В	377	-1.251	11,953 18.007	1.00	25.85
		MOTA	2493	CA	HIS	В	377	-0.689	11.284 16.843	1.00	25.68
		ATOM	2494	CB	HIS	B	377	-0.078	12.306 15.886	1,00	25.27
		MOTA	2495	CG	HIS	В	377	0.535	11.690 14.667	1.00	30.63
	20	ATOM	2495	CD2	HIS	В	377	1.828	11.559 14.287	1.00	31.03
	20	ATOM	2497		HIS	В	377	-0.217	11.096 13.683	1.00	35.05
			2498	ND1	HIS	В	377 377	0.588	10.607 12.750		33.12
		ATOM		CE1					10.882 13.093		
		ATOM	2499	NE2	HIS	В	377	1,833		1,00	31.06
	25	ATOM	2500	C	HIS	В	377	0.365	10.237 17.210 9.109 16.719	1.00	24.37
	23	ATOM	2501	0	HIS	В	377	0.321	•	1.00	21.47
10		ATOM	2502	N	LEU	В	378	1.307	10.609 18.072	1.00	19.24
IJ		ATOM	2503	CA	LEU	В	378	2.365	9.691 18.474		20.09
Ü		ATOM	2504	CB	LEU	В	378	3.363	10.402 19.388	1.00	18.64
	30	ATOM	2505	CG	LEU	В	378	4.230	11.489 18.736	1.00	22.15
1	30	ATOM	2506	CD1	LEU	В	378	5.104	12.148 19.796	1.00	22.51
4		ATOM	2507	CD2	LEU	В	378	5.094	10.885 17.638	1.00	20.68
100		ATOM	2508	C	LEU	В	378	1.832	8.433 19.161	1.00	18.91
£1		ATOM	2509	0	LEU	В	378	2.262	7.320 18.859	1.00	17.52
	36	ATOM	2510	N	LEU	В	379	0.888	8.610 20.077	1.00	18.25
IJ	35	ATOM	2511	CA	LEU	В	379	0.317	7.486 20.795	1.00	18.60
IJ		ATOM	2512	CB	LEU	В	379	-0.526	7.989 21.968	1.00	16.77
		ATOM	2513	CG	LEU	В	379	0,292	8.353 23.214	1.00	17.90
٠.C		ATOM	2514	CD1	LEU	В	379	-0.578	9.092 24.211	1.00	15.84
ū	4.0	ATOM	2515	CD2	LEU	В	379	0.851	7.075 23.842	1.00	22.09
	40	MOTA	2516	C	LEU	В	379	-0.518	6.605 19.872	1.00	20.17
		ATOM	2517	0	LEU	В	379	-0.476	5.377 19.968	1.00	18.11
		MOTA	2518		GLU	В	380	-1.273	7.222 18.971		
		MOTA	2519		GLU	В	380	-2.086	6.435 18.049	1.00	20.19
	4.5	MOTA	2520	CB	GLU	В	380	-2.994	7.350 17.222		22.43
	45	MOTA	2521	CG	GLÜ	В	380	-4.182	7.874 18.007	1.00	25.30
		ATOM	2522	CD	GLU	В	380	-5.070	8.789 17.188	1.00	29.44
		ATOM	2523	OE1	GLU	В	380	-6.206	9.066 17.625	1.00	31.70
		ATOM	2524	OE2	GLU	В	380	-4.631	9.230 16.110	1.00	31.75
		ATOM	2525	C	GLU	В	380	-1.210	5.594 17.117	1.00	18.92
	50	MOTA	2526	0	GLU	В	380	-1.586	4.491 16.722	1.00	19.83
		ATOM	2527	N	ACYS	В	381	-0.039	6.113 16.772	0.75	17.41
		ATOM	2528	N	BCYS	В	381	-0.035	6.113 16.779	0.25	17.76
		ATOM	2529	CA	ACYS	В	381	0.860	5.384 15.887	0.75	20.19
		MOTA	2530	CA	BCYS	B	381	0.875	5.407 15.884	0.25	17.50
	55	ATOM	2531	CB	ACYS	В	381	1.870	6.342 15.248	0.75	24.20
		ATOM	2532	CB	BCYS	В	381	1.830	6.406 15.226	0.25	16.63
		ATOM	2533	SG	ACYS	В	381	1.167	7.518 14.060	0.75	33.54
		ATOM	2534	SG		В	381	3.048	5.656 14.128	0.25	10.36
		ATOM	2535	C	ACYS	В	381	1.626	4.269 16.592	0.75	20.59
	60	ATOM		С	BCYS		381	1.689	4.305 16.561	0.25	19.19
		ATOM	2537	0	ACYS		381	1.737	3.161 16.069	0.75	19.16
		ATOM	2538		BCYS		381	1.904	3.241 15.982	0.25	19.25
								100			

	5	ATOM	2539	N	ALA	В	382	2.134	4.560	17.785	1.00	19.04
		ATOM .	2540	CA	ALA	В	382	2.955	3.602	18.530	1.00	20.27
		ATOM	2541	CB	ALA	В	382	4.135		19.143	1.00	18.68
		ATOM	2542	C	ALA	В	382	2.356		19.607	1.00	16,82
		ATOM	2543	Ö	ALA	В	382	3.070		20.142	1.00	13.37
	10	ATOM	2544	Ŋ	TRP	В	383	1.074		19.916	1.00	15.30
	10	ATOM	2545		TRP	В	383					
				CA				0.487		21.013	1.00	15.80
	•	ATOM	2546	CB	TRP	В	383	-1.009		21.160	1.00	16.63
		ATOM	2547	CG	TRP	В	383	-1.871		20.129	1.00	19.93
		MOTA	2548		TRP	B	383	-2.493		20.198	1.00	20.80
	15	ATOM	2549	CE2	TRP	В	383	-3.226		19.003	1.00	19.27
		MOTA	2550	CE3	TRP	В	383	-2.506	-0.542		1.00	21.32
		MOTA	2551	CD1	TRP	В	383	-2.236	2.312	18.933	1.00	18.59
		MOTA	2552	NEl	TRP	В	383	-3.051	1.439	18.250	1.00	23.67
		MOTA	2553	CZ2	TRP	В	383	-3.963	-0.853	18.733	1.00	21.55
	20	MOTA	2554	CZ3	TRP	В	383	-3.243	-1.702	20.888	1.00	20.29
		ATOM	2555	CH2	TRP	В	383	-3.960	-1.844		1.00	19.03
		ATOM	2556	C	TRP	В	383	0.701		21.020	1.00	17.35
		ATOM	2557	ō	TRP	В	383	0.982		22.077	1.00	13.92
		ATOM	2558	N	LEU	В	384	0.568	-0.087		1.00	14.07
2.05%	25	ATOM	2559	CA	LEU	В	384	0.773	-1.532		1.00	15.98
ΙŽ	23	ATOM	2560	CB	LEU	В	384	0.181				
ū									-2.200		1.00	12.19
ľ		ATOM	2561	CG	LEU	В	384	0.173	-3.735		1.00	12.97
(I)		ATOM	2562	CD1	LEU	В	384	-0.352	-4.240		1.00	10.65
	20	ATOM	2563	CD2	LEU	В	384	-0.707	-4.259		1.00	17.84
1	30	ATOM	2564	C	LEU	В	384	2.262	-1.861		1.00	14.64
ci.		ATOM	2565	0	LEU	В	384	2.627	-2.833		1.00	13.78
10		ATOM	2566	N	GLU	В	385	3.116	-1.046		1.00	14.96
1)		ATOM	2567	CA	GLU	В	385	4.565	-1.260	19.509	1.00	13.79
		ATOM	2568	CB	GLU	В	385	5.336	-0.179	18.739	1.00	15.34
IJ	35	ATOM	2569	CG	GLU	В	385	5.297	-0.312	17.207	1.00	15.38
נגן נגן		ATOM	2570	CD	GLU	В	385	6.162	0.738	16,520	1.00	23.97
(. i.		ATOM	2571	OE1	GLU	В	385	7.381	0.500	16.358	1.00	21.03
		ATOM	2572	OE2	GLU	В	385	5.622		16.149	1.00	22.19
Ü		ATOM	2573	С	GLU	В	385	4.963	-1.161		1.00	15.79
ű	40	ATOM	2574	0	GLU	В	385	5.788	-1.942		1.00	15.04
		ATOM	2575	N	ILE	В	386	4.389	-0.213		1.00	13.32
		ATOM	2576		ILE	В	386	4.723	-0.019			14.06
		ATOM	2577		ILE	В	386	4.173		23.614	1.00	15.36
		ATOM		CG2	ILE	В	386	4.374		25.130	1.00	
	45	ATOM	2579		ILE		386					15.97
	43	ATOM				В		4.910		22.907	1.00	17.95
			2580		ILE	В	386	4.118		22.874	1.00	21.12
		MOTA	2581	C	ILE	B	386	4.227	-1.164		1.00	14.97
		ATOM	2582	0	ILE	В	386	4.905	-1.560		1.00	19.60
		ATOM	2583	N	LEU	В	387	3.038	-1.675		1.00	15.18
	50	MOTA	2584	CA	LEU	В	387	2.516	-2.791		1.00	15.98
		ATOM	2585	CB	LEU	В	387	1.070	-3.097		1.00	17.15
		ATOM	2586	CG	LEU	В	387	-0.031	-2.113	24.486	1.00	19.65
		ATOM	2587	CD1	LEU	В	387	-1.371	-2.628	23.972	1.00	17.77
		MOTA	2588	CD2	LEU	В	387	-0.075	-1.966	26.002	1.00	15.38
	55	ATOM	2589	С	LEU	В	387	3.391	-4.013	24.180	1.00	14.69
		ATOM	2590	0	LEU	В	387	3.712	-4.792		1.00	14.03
		ATOM	2591	N	MET	В	388	3.785	-4.178		1.00	16.43
		ATOM	2592	CA	MET	В	388	4.602	-5.329		1.00	16.67
		ATOM	2593	CB	MET	В	388	4.673	-5.460		1.00	14.83
	60	ATOM	2594	CG	MET	В	388	3.403	-6.066			
	50	ATOM	259 4 2595	SD							1.00	13.91
					MET	В	388	3.364	-6.193		1.00	17.23
		MOTA	2596	CE	MET	В	388	1.906	-7.225	10.211	1.00	14.97

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	5	ATOM	2597	С	MET	В	388	6.004	-5.332 2		1.00	20.19
		MOTA	2598	0	MET	В	388	6.460	-6.366 2		1.60	21.50
		MOTA	2599	N	ILE	В	389	6.707	-4.203 2		1.00	15.34
		MOTA	2600	CA	ILE	B	389	8.044	-4.209 2		1.00	15.59
		MOTA	2601	CB	ILE	В	389	8.836	-2.911 2	3.322	1.00	14.95
	10	MOTA	. 2602	CG2	ILE	В	389	8.330	-1.746 2	4.158	1.00	12.81
		MOTA	2603	CG1	ILE	В	389	10.325	-3.164 2	3,602	1.00	17.24
		ATOM	2604	CD1	ILE	В	389	11.228	-1.972 2	3,357	1.00	15.65
		MOTA	2605	C	ILE	В	389	7.950	-4.446 2	5.147	1.00	14.30
		ATOM	2606	0	ILE	В	389	8.844	-5.044 2	5.739	1.00	18.72
	15	ATOM	2607	N	GLY	В	390	6.855	-4.007 2	5.761	1.00	13.99
		ATOM	2608	CA	GLY	В	390	6.681	-4.219 2		1.00	14.87
		ATOM	2609	C	GLY	В	390	6.444	-5.702 2		1.00	18.54
		ATOM	2610	Õ	GLY	В	390	6.989	-6.282 2		1.00	16.54
•		ATOM	2611	N	LEU	В	391	5.623	-6.325 2		1.00	16.15
	20	ATOM	2612	CA	LEU	В	391	5.334	-7.743 2		1.00	18.91
	20	MOTA	2613	CB	LEU	В	391	4.332	-8.179 2		1.00	19.55
		ATOM	2614	CG	LEU	В	391	4.157	-9.689 2		1.00	20.91
							391	3.580	-10.351 2		1.00	19.41
		ATOM	2615	CD1	LEU	В			-9.913 2			20.70
	25	ATOM	2616	CD2	LEU	В	391	3.232			1.00	
	25	MOTA	2617	C	LEU	В	391	6.649	-8.518 2		1.00	20.31
Ü		ATOM	2618	0	LEU	В	391	7.002	-9.352 2		1.00	18.66
IU		ATOM	2619	N	VAL	В	392	7.378	-8.215 2		1.00	18.71
D		ATOM	2620	CA	VAL	В	392	8.649	-8.868 2		1.00	19.51
4		ATOM	2621	CB	VAL	В	392	9.288	-8.281 2		1.00	23.77
· •	30	MOTA	2622	CG1	VAL	В	392	10.751	-8.687 2		1.00	24.63
<u> </u>		MOTA	2623	CG2	VAL	В	392	8.520	-8.773 2		1.00	19.94
ني		ATOM	2624	C	VAL	В	392	9.615	-8.707 2		1.00	22,80
#1		ATOM	2625	0	VAL	В	392	10.336	-9.637 2		1.00	19.36
		MOTA	2626	N	TRP	В	393	9.617	-7.522 2	7.046	1.00	22.10
لدا	35	MOTA	2627	CA	TRP	В	393	10.492	-7.241 2	8.171	1.00	23.20
ليا		MOTA	2628	CB	TRP	В	393	10.388	-5.773 2	8.578	1.00	19.22
ine.		ATOM	2629	CG	TRP	В	393	11.056	-5.479 2	9.895	1.00	22.53
		ATOM	2630	CD2	TRP	В	393	12.453	-5.591 3	0.193	1.00	20.36
Ď		ATOM	2631	CE2	TRP	В	393	12.624	-5.208 3	1.545	1.00	25.65
Ū	40	ATOM	2632	CE3	TRP	В	393	13.578	-5.976 2	9.449	1.00	22.12
		ATOM	2633	CD1	TRP	В	393	10.452	-5.046 3	1.044	1.00	23.02
		ATOM	2634	NE1	TRP	В	393	11.387	-4.881 3	2.037	1.00	24.91
		MOTA	2635	CZ2	TRP	В	393	13.876	-5.200 3		1.00	23.00
		ATOM	2636	CZ3	TRP	В	393	14.829	-5.968 3		1.00	23.98
	45	ATOM	2637	CH2	TRP	В	393	14.964	-5.582 3		1.00	23.20
		ATOM	2638	С	TRP	В	393	10.208	-8.114 2		1.00	24.36
		ATOM	2639	Ō	TRP	В	393	11.128	-8.717 2		1.00	23.04
		ATOM	2640	N	ARG	В	394	8.952	-8.189 2		1.00	21.29
		ATOM	2641	CA	ARG	В	394	8.680	-9.003 3		1.00	22.43
	50	ATOM	2642	CB	ARG	В	394	7.365	-8.601 3		1.00	23.97
	30	ATOM	2643	CG	ARG	В	394	6.259	-8.149 3		1.00	26.16
					ARG		394	5.026	-7.727 3		1.00	20.86
		ATOM	2644 2645	CD		В	394	3.817	-7.727 3		1.00	19.54
		ATOM		NE	ARG	В						
	55	ATOM	2646	CZ	ARG	В	394	3.327	-7.059 2		1.00	20.58
	55	ATOM	2647	NH1	ARG	В	394	3.944	-5.902 2		1.00	17.41
		ATOM	2648	NH2	ARG	В	394	2.229	-7.347 2		1.00	16.82
		ATOM	2649	C	ARG	В	394	8.695			1.00	21.78
		MOTA	2650	0	ARG	B	394		-11.294 3		1.00	23.44
		ATOM	.2651	N	SER	B	395		-10.880 2		1.00	17.10
	60	ATOM	2652	CA	SER	В	395		-12.289 2		1.00	25.08
		ATOM	2653	CB	SER	В	395		-12.473 2		1.00	19.47
		ATOM	2654	OG	SER	B	395	6.832	-12.136 2	7.619	1.00	21.73
								100				

	5	MOTA	2655	C	SER	В	395	10.239	-12.831 29.031	1.00	26.29
		ATOM	2656	0	SER	В	395	10.458	-14.030 28.854	1.00	23.75
		ATOM	2657	N	MET	В	396	11.206	-11.938 29.210	1.00	30.79
		MOTA	2658	CA	MET	В	396		-12.307 29.205	1.00	35.07
		ATOM	2659	CB	MET	В	396	13.479		1.00	33.84
	10	ATOM	2660	CG	MET	В	396	14.155	-10.569 28.171	1.00	36.88
	- •	MOTA	2661	SD	MET	В	396	15.149	-9.127 28.491	1.00	40.96
		ATOM	2662	CE	MET	В	396	16.675	-9.849 28.998	1.00	39.67
		MOTA	2663	C	MET	B	396	12.983		1.00	35.88
		MOTA	2664	0	MET	В	396	13.828		1.00	34.52
	15	MOTA					397				
	13		2665	N	GLU	В		12.348		1.00	36.19
		MOTA	2666	CA	GLU	В	397		-14.206 32.492	1.00	39.24
		MOTA	2667	CB	GLU	В	397		-13.605 33.821	1.00	44.38
		MOTA	2668	CG	GLU	В	397		-12.422 34.271	1.00	54.05
	00	MOTA	2669	CD	GLU	В	397		-12.587 35.686	1.00	56.78
	20	MOTA	2670	OE1	GLU	В	397		-11.621 36.470	1.00	60.90
	•	MOTA	2671	OE2	GLU	₿	397		-13.688 36.013	1.00	60.82
		ATOM	2672	C	GLU	В	397	11,878	-15.528 32.273	1.00	36.65
		ATOM	2673	0	GLU	В	397	12.021	-16.459 33.061	1.00	35.84
		MOTA	2674	N	HIS	В	398	11.100	-15.609 31.202	1.00	32.14
	25	MOTA	2675	CA	HIS	В	398	10.347	-16.823 30.914	1.00	29.48
Ď		MOTA	2676	CB	HIS	В	398	8.863	-16.567 31.178	1.00	29.87
ľŪ		ATOM	2677	CG	HIS	В	398	8.582	-16.111 32.574	1.00	31.80
IJ		ATOM	2678	CD2	HIS	В	398	8.215	-16.801 33.678	1.00	29.12
		ATOM	2679	ND1	HIS	В	398	8.727	-14.799 32.972	1.00	33.27
أبرأ	30	MOTA	2680	CE1	HIS	В	398	8.462	-14.701 34.262	1.00	32.19
jai		ATOM	2681	NE2	HIS	В	398		-15.902 34.714	1.00	33.48
,		ATOM	2682	С	HIS	В	398		-17.317 29.492	1.00	25.95
		ATOM	2683	0	HIS	В	398		-17.291 28.672	1.00	27.47
# = 1		ATOM	2684	N	PRO	В	399		-17.801 29.186	1.00	29.09
	35	ATOM	2685	CD	PRO	В	399		-17.922 30.096	1.00	29.93
		ATOM	2686	CA	PRO	В	399		-18.300 27.845	1.00	27.40
ليا		ATOM	2687	CB	PRO	В	399		-18.988 28.016	1.00	32.09
		ATOM	2688	CG	PRO	В	399		-18.284 29.170	1.00	30.81
Q		ATOM	2689	C	PRO	В	399		-19.246 27.319	1.00	29.76
Û	40	ATOM	2690	ō	PRO	В	399		-20.137 28.035	1.00	29.18
		ATOM	2691	N	GLY	В	400		-19.035 26.071	1.00	27.45
		ATOM		CA	GLY	В	400		-19.884 25.466	1.00	26.93
		ATOM	2693	C	GLY	В	400		-19.537 25.849	1.00	26.73
		ATOM	2694	Ö	GLY	В	400		-20.153 25.356	1.00	28.36
	45	ATOM	2695	N	LYS	В	401		-18.554 26.727	1.00	25.50
		ATOM	2696	CA	LYS	В	401		-18.139 27.165	1.00	23.45
		ATOM	2697	CB	LYS	В	401		-18.563 28.619	1.00	
		ATOM	2698	CG							28.50
					LYS	В	401		-20.069 28.879	1.00	28.58
	50	MOTA	2699	CD	LYS	В	401		-20.353 30.349	1.00	35.47
	30	ATOM	2700	CE	LYS	В	401		-21.847 30.635	1.00	38.59
		ATOM	2701	NZ	LYS	В	401		-22.611 29.989	1.00	42.39
		ATOM	2702	C	LYS	В	401		-16.622 27.060	1.00	21.78
		ATOM	2703	0	LYS	В	401		-15.872 27.035	1.00	21.45
	66	ATOM	2704	N	LEU	В	402		-16.181 26.995	1.00	23.45
	55	MOTA	2705	CA	LEU	В	402		-14.759 26.925	1.00	21.37
		ATOM	2706	CB	LEU	В	402		-14.449 25.689	1.00	18.47
		ATOM	2707	CG	LEU	В	402		-14.673 24.360	1.00	16.89
		MOTA	2708	CD1	LEU	В	402		-14.395 23.211	1.00	21.23
		MOTA	2709	CD2	LEU	В	402		-13.760 24.277	1.00	23.15
	60	ATOM	2710	С	LEU	В	402		-14.399 28.179	1.00	19.66
		ATOM	2711	0	LEU	В	402		-14.880 28.381	1.00	18.05
		MOTA	2712	N	LEU	В	403	4.743	-13.559 29.019	1.00	19.54

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	3	MOTA	2713	CA	LEU	В	403	4.099	-13.148	30.259	1.00	20.21
		MOTA	2714	CB	Leu	В	403	5.155	-12.856	31.332	1.00	23.16
		ATOM	2715	CG	LEU	В	403	4.639	-12.682	32.766	1.00	29.54
		ATOM	2716	CD1	LEU	В	403		-13.450		1.00	32.67
	• •	ATOM	2717	CD2	LEU	В	403		-11.213		1.00	32.38
	10	MOTA	2718	C	LEU	В	403		-11.918		1.00	20.42
		ATOM	2719	0	LEU	В	403	3.638	-10.787	30.291	1.00	19.18
•		ATOM	2720	N	PHE	В	404	2.003	-12.145	29.565	1.00	21.44
•		ATOM	2721	CA	PHE	В	404	1.066	-11.053	29.340	1.00	21.69
		ATOM	2722	CB	PHE	В	404		-11.598		1.00	17.26
	15	ATOM	2723	CG	PHE	В	404		-11.897		1.00	19.75
	13	ATOM					•					
			2724	CD1	PHE	В	404		-13.167		1.00	17.90
		ATOM	2725	CD2	PHE	B	404		-10.897		1.00	17.04
		MOTA	2726	CE1	PHE	В.	404		-13.434		1.00	19.88
		ATOM	2727	CE2	PHE	В	404	-0.007	-11.148	24.924	1.00	18.47
	20	ATOM	2728	CZ	PHE	В	404	0.386	-12.418	24.503	1.00	16.45
		ATOM	2729	C	PHE	В	404	0.768	-10.403	30.685	1.00	21.95
		ATOM	2730	ō	PHE	В	404	0.656		30.804	1.00	22.99
					ALA	B	405		-11.247		1.00	21.12
		MOTA	2731	N								
	• •	MOTA	2732	CA	ALA	B	405	0.424			1.00	22.43
	25	MOTA	2733	CB	ALA	B	405	-1.074			1.00	24.69
Ď		MOTA	2734	C	ALA	B	405	0.959	-11.926	33.962	1.00	22.40
เป็		ATOM	2735	0	ALA	В	405	1.133	-13.061	33.517	1.00	21.67
Ø		ATOM	2736	N	PRO	В	406	1.246	-11.612	35.230	1.00	25.60
		ATOM	2737	CD	PRO	В	406		-10.294		1.00	23.65
	30	ATOM	2738	CA	PRO	В	406		-12.632		1.00	25.91
	30											
ڪي		MOTA	2739	CB	PRO	В	406		-11.882		1.00	27.04
1,4		ATOM	2740	CG	PRO	В	406		-10.431		1.00	26.56
¥!		MOTA	2741	C	PRO	В	406	0.876	-13.873	36.259	1.00	25.12
i		ATOM	2742	0	PRO	В	406	1.368	-14.967	36.538	1.00	28,92
	35	ATOM	2743	N	ASN	В	407	-0.426	-13.713	36.039	1.00	23.53
!,₩		ATOM	2744	CA	ASN	В	407		-14.852		1.00	24.09
l.U		ATOM	2745	CB	ASN	В	407	-2.553	-14.526		1.00	24.08
		ATOM	2746	CG	ASN	В	407	-3.327			1.00	26.72
١Ō												
ı	40	ATOM	2747		ASN	В	407	-2.851			1.00	22.65
	40	MOTA	2748	ND2	ASN	В	407	-4.528	-13.140		1.00	26.46
		ATOM	2749	C	ASN	В	407	-1.820	-15.231		1.00	26.91
		ATOM	2750	0	ASN	В	407	-2.859	-15.870	34.548	1.00	28.68
		ATOM	2751	N	LEU	В	408	-1.059	-14.816	33.708	1.00	27.28
		ATOM	2752	CÁ	LEU	В	408		-15.124		1.00	27.23
	45	ATOM	2753	CB	LEU	В	408		-14.030		1.00	26.61
		ATOM	2754	CG	LEU	В	408		-14.464		1.00	27.51
		MOTA	2755	CD1	LEU	В	408		-15.692		1.00	28.75
		ATOM	2756	CD2	LEU	В	408		-13.330		1.00	25.48
		MOTA	2757	C	LEU	В	408	-0.113	-15.316	31.514	1.00	27.56
	50	ATOM	2758	0	LEU	В	408	0.247	-14.465	30.695	1.00	26.86
		MOTA	2759	N	LEU	В	409	0.553	-16.426	31.759	1.00	27.54
		MOTA	2760	CA	LEU	В	409		-16.774		1.00	31.96
		ATOM	2761	CB	LEU	В	409		-17.355		1.00	31,88
	C E	MOTA	2762	CG	LEU	В	409		-17.703		1.00	37.72
	55	ATOM	2763	CD1	LEU	В	409	4.773			1.00	39.57
		ATOM	2764	CD2	LEU	В	409	5.066	-18.018	32.758	1.00	41.72
		ATOM	2765	С	LEU	В	409	1.401	-17.805	30.009	1.00	31.53
		ATOM	2766	O .	LEU	В	409	0.921	-18.892	30.340	1.00	32,67
		ATOM	2767	N	LEU	В	410		-17.465		1.00	29.58
	60	ATOM	2768	CA	LEU	В	410	1.228			1.00	31.55
		ATOM	2769	СВ	LEU	В	410	0.192			1.00	29.83
		ATOM	2770	CG	LEU	В	410		-17.080		1.00	28.55
		A1011	2110	CG		0	470	- 1.04/	- 17.000	& 1 . T 3 &	1.00	20.33

	5	MOTA	2771	CD1	LEU	В	410		-16.135		1,00	26.92
		atom	2772	CD2	LEU	B	410		-18.200		1.00	30.49
		ATOM	2773	Ç	LEU	В	410	2,397	-18.839	26.814	1.00	33,88
		MOTA	2774	0	LEU	В	410	3.427	-18.170	26.726	1.00	36.49
		ATOM	2775	N	ASP	В	411	2.238	-20.013	26.206	1.00	38.80
	10	ATOM	2776	CA	ASP	В	411	3.275	-20.562	25.336	1.00	38.39
	- •	ATOM	2777	CB	ASP	В	411	3.657			1.00	44.53
		ATOM	2778	CG	ASP	В	411		-22.943		1.00	44.90
		ATOM	2779	OD1	ASP	B	411		-23.035		1.00	45.70
		ATOM	2780	OD2	ASP	B	411		-23.603	-	1.00	50.54
	15			C C	•	B	411		-20.551		1.00	38.57
	13	ATOM	2781	_	ASP				-20.331			36.48
		MOTA	2782	0	ASP	В	411				1.00	
		ATOM	2783	N	ARG	В	412		-20.777		1.00	36.85
		ATOM	2784	CA	ARG	В	412		-20.763		1.00	38.32
		AŢOM	2785	CB	arg	B	412		-21.083		1.00	38.69
	20	MOTA	2786	CG	ARG	В	412		-22.314		1.00	40.05
		ATOM	2787	CD	ARG	В	412		-22.552	•	1.00	42.98
		ATOM	2788	NE	ARG	В	412	5.540	-22.099	17.626	1.00	40.95
		MOTA	2789	CZ	ARG	В	412	4.649	-22.559	16.753	1.00	41.11
		ATOM	2790	NH1	ARG	В	412	3.777	-23.490	17.115	1.00	44.01
(3	25	ATOM	2791	NH2	ARG	В	412	4.632	-22.091	15.515	1.00	41.28
ίΩ įĎ		ATOM	2792	C	ARG	В	412	2.107	-21.712	21.217	1.00	37.64
Ü		ATOM	2793	0	ARG	В	412	1.287	-21.427	20.343	1.00	36.51
		ATOM	2794	N	ASN	В	413		-22.834		1.00	35.32
Ü		ATOM	2795	CA	ASN	В	413	0.974			1.00	36.68
<u> </u>	30	ATOM	2796	CB	ASN	В	413		-25.035		1.00	37.54
1	50	ATOM	2797	CG	ASN	В	413		-26.100		1.00	43.56
i		ATOM	2798	OD1	ASN	В	413		-26.022		1.00	46.11
'v]			2799	ND2	asn	В	413		-27.104		1.00	47.04
1 :		MOTA			asn	В	413		-23.168		1.00	34.01
	35	ATOM	2800	C			413		-23.100		1.00	32.43
ليا.	33	ATOM	2801	0	ASN	В						
IJ		ATOM	2802	N	GLN	В	414		-22.397		1.00	32.85
		ATOM	2803	CA	GLN	В	414		-21.741		1.00	31.91
Ü		ATOM	2804	CB	GLN	B	414		-21.172		1.00	33.17
Õ	4.0	ATOM	2805	CG	GLN	В	414		-22.242		1.00	32.31
.25	40	ATOM	2806	CD	GLN	В	414		-21.667		1.00	34.63
		ATOM	2807	OE1	GLN	В	414		-21.277		1.00	33.23
		MOTA	2808	NE2	GLN	B	414		-21.606			
		MOTA	2809	C	GLN	В	414		-20.638		1.00	29.57
		ATOM	2810	0	GLN	В	414	-3.195	-20.204	22.409	1.00	31.32
	45	MOTA	2811	N	GLY	В	415	-1.077	-20.190	21.682	1.00	30.96
		ATOM	2812	CA	GLY	В	415	-1.350	-19.160	20.697	1.00	34.27
		ATOM	2813	C	GLY	В	415	-2.184	-19.725	19.562	1.00	35.27
		ATOM	2814	0	GLY	В	415	-2.918	-19.000	18.887	1.00	33.20
		MOTA	2815	N	LYS	В	416	-2.070	-21.031	19.354	1.00	35.28
	50	ATOM	2816	CA	LYS	В	416		-21.707		1.00	38.26
		ATOM	2817	CB	LYS	В	416		-23.177		1.00	38.00
		ATOM	2818	CG	LYS	В	416		-23.407		1.00	40.05
		ATOM	2819	CD	LYS	В	416		-24,668		1.00	44.10
		ATOM	2820	CE	LYS	В	416		-25.541		1.00	41.85
	55	ATOM	2821	NZ	LYS	В	416		-24.760		1.00	45.63
	33										1.00	36.93
		ATOM	2822	C	LYS	В	416		-21.645			
		MOTA	2823	0	LYS	B	416		-21.790		1.00	38.36
		MOTA	2824	N	CYS	В	417		-21.430		1.00	37.10
	60	ATOM	2825	CA	CYS	В	417		-21.371		1.00	36.46
	60	ATOM	2826	CB	CYS	В	417		-21.226		1.00	39.01
		ATOM	2827	SG	CYS.	В	417		-22.710		1.00	43.81
		ATOM	2828	С	CYS	В	417	-6.899	-20.277	19.491	1.00	35.19

	5	ATOM	2829	0	CYS	В	417	-8.127	-20.296 19	.485	1.00	33.92
		ATOM	2830	N	VAL	В	418	-6,195	-19.316 18	.906	1.00	36.04
		ATOM	2831	CA	VAL	В	418	-6.838	-18.236 18	.163	1.00	34.59
		ATOM	2832	CB	VAL	В	418	-6.525	-16.850 18	.775	1.00	34.87
		ATOM	2833	CG1	VAL	В	418		-15.763 17		1.00	35.32
	10	ATOM	2834	CG2	VAL	B	418		-16.630 20		1.00	33.65
	. 0	ATOM	2835	C	VAL	B	418		-18.317 16		1.00	34.17
				0 .	VAL	В	418		-18.323 16		1.00	32.73
		MOTA	2836				-				1.00	
		ATOM	2837	N	GLU	B	419		-18.388 15			33.44
		MOTA	2838	CA	GLU	В	419		-18.500 14		1.00	34.52
	15	MOTA	2839	CB	GLU	B	419		-18.722 13		1.66	36.21
		MOTA	2840	CG	GLU	B	419		-17.538 13		1.00	44.19
		ATOM	2841	CD	GLU	В	419		-17.723 11		1.00	48.47
		ATOM	2842	OE1	GLU	B	419		-18.605 11		1.00	51.04
		MOTA	2843	OE2	GLU	В	419	-10.484	-16.993 11	. 813	1.00	48.91
	20	MOTA	2844	C	GLU	B	419	-5.717	-17.289 13	. 997	1.00	32.89
		ATOM	2845	0	GLU	В	419	-6.156	-16.144 14	. 123	1.00	31.09
		MOTA	2846	N	GLY	В	420	-4.501	-17.562 13	. 535	1.00	32.84
		ATOM	2847	CA	GLY	В	420	-3.594	-16.506 13	.122	1.00	34.37
		ATOM	2848	С	GLY	В	420	-2.722			1.00	35.30
, em.	25	ATOM	2849	0	GLY	В	420		-15.246 13		1.00	35.94
		ATOM	2850	N	MET	В	421		-16.285 15		1.00	30.08
Û		ATOM	2851	CA	MET	В	421		-15.780 16		1.00	29.22
ĬŪ.		ATOM	2852	CB	MET	В	421		-15.922 17		1.00	22.54
Ø			2853	CG	MET	В	421		-15.270 19		1.00	23.82
<u> </u>	30	ATOM							-13.494 18		1.00	28.40
1	30	ATOM	2854	SD	MET	В	421					
i ==		ATOM	2855	CE	MET	В	421		-12.800 19		1.00	24.67
1		ATOM	2856	C	MET	В	421		-16.416 16		1.00	29.67
š 1		ATOM	2857	0	MET	В	421		-15.751 17		1.00	29.76
		MOTA	2858	N	VAL	В	422		-17.694 16		1.00	30.63
W	35	MOTA	2859	CA	VAL	В	422		-18.338 16		1.00	29.90
لدا		MOTA	2860	CB	VAL	В	422		-19.835 16		1,00	35.74
		MOTA	2861	CG1	VAL	В	422		-19.992 14		1.00	37.64
Ď		MOTA	2862	CG2	VAL	В	422	1.659	-20.555 16		1.00	31.68
		ATOM	2863	C	VAL	В	422	1.669	-17.640 15	. 935	1.00	28.64
Ð	40	ATOM	2864	0	VAL	В	422	2.788	-17.571 16	.441	1.00	26.15
		ATOM	2865	N	GLU	В	423	1.402	-17.113 14	.747	1.00	28.70
		MOTA	2866	CA	GLU	В	423	2.454	-16.435 13	.997	1.00	31.34
		MOTA	2867	CB	GLU -	В	423	1.963	-16.050 12	. 596	1.00	36.21
		ATOM	2868	CG	GLU	В	423	0.502	-16.376 12	.325	1.00	45.83
	45	ATOM	2869		GLU	В	423	•	-17.865 12		1.00	46.71
		ATOM	2870	OE1	GLU	В	423		-18.368 12		1.00	45.97
		ATOM	2871	OE2	GLU	В	423		-18.530 11		1.00	50.05
		ATOM	2872	C	GLU	В	423		-15.186 14		1.00	30.57
			2873	0	GLU	В	423		-14.870 14		1.00	26.59
	50	ATOM									1.00	
	30	ATOM	2874	N	ILE	В	424		-14.478 15			26.19
		MOTA	2875	CA	ILE	В	424		-13.279 16		1.00	26.23
		MOTA	2876	CB	ILE	В	424		-12.435 16		1.00	29.33
		ATOM	2877	CG2	ILE	В	424		-11.315 17		1.00	30.91
		ATOM	2878	CG1	ILE	В	424		-11.817 15		1.00	29.09
	55	MOTA	2879	CD1	ILE	В	424		-11.514 15		1.00	30.51
		ATOM	2880	C	ILE	В	424		-13.673 17		1.00	24.22
		ATOM	2881	0	ILE	В	424	4.152	-13.037 17	.725	1.00	21.05
		ATOM	2882	N	PHE	В	425	2.708	-14.746 18	. 023	1.00	21.71
		ATOM		CA	PHE	В	425	3.370	-15.236 19	. 223	1.00	18.85
	60	ATOM	2884	CB	PHE	В	425		-16.479 19		1.00	22.98
		ATOM	2885	CG	PHE	В	425		-16.183 20		1.00	22.17
		ATOM	2886		PHE	В	425		-17.112 21		1.00	25.47
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	5	MOTA	2887		PHE	В	425		-15.001		1.00	26.30
		ATOM	2888	CE1	PHE	В	425		-16.871		1.00	24.33
		ATOM	2889	CE2	PHE	В	425		-14.749		1.00	25.03
		MOTA	2890	CZ	PHE	В	425	-0.459	-15.684	22.663	1.00	26.44
		MOTA	2891	C	PHE	B	425	4.817	-15.610	18.885	1.00	20.00
	10	MOTA	2892	0	PHE	В	425	5.741	-15.292	19.636	1.00	21.15
		ATOM	2893	N .	ASP	В	426	5.023	-16.281	17.754	1.00	19.87
		ATOM	2894		ASP	В	426		-16.685		1.00	23.20
		ATOM	2895	CB	ASP	В	426		-17.510		1.00	26.53
		ATOM	2896	CG	ASP	В	426		-18.965		1.00	34.28
	15	ATOM	2897	OD1	ASP	В	426		-19.467		1.00	35.24
	13								-19.600		1.00	31.49
		ATOM	2898	ODS	ASP	В	426					
		ATOM	2899	C	ASP	В	426		-15.489		1.00	21.84
		ATOM	2900	0	ASP	В	426		-15.526		1.00	21.55
	••	ATOM	2901	N	MET	В	427		-14.429		1.00	20.12
	20	ATOM	2902	ÇA	MET	В	427		-13.234		1.00	21.02
		MOTA	2903	CB	MET	В	427		-12.228		1.00	18,53
		ATOM	2904	CG	MET	В	427	6.864	-12.559	14.038	1.00	27.92
		ATOM	2905	SD	MET	В	427	6.011	-11.341	13.024	1.00	32.84
		ATOM	2906	CE	MET	В	427	4.363	-11.532	13.581	1.00	33.63
(3	25	ATOM	2907	<i>∞</i> C	MET	В	427	7.945	-12.616	17.732	1.00	17.42
		ATOM	2908	0	MET	В	427	9.073	-12.180	17.950	1.00	22.09
ĪŪ		ATOM	2909	N	LEU	В	428		-12.597		1.00	20.47
		ATOM	2910	CA	LEU	В	428		-12.033		1.00	20.13
(X)		ATOM	2911	CB	LEU	В	428		-11.964		1.00	17.58
-	30	ATOM	2912	CG	LEU	В	428		-10.887		1.00	18.41
Ų	50	ATOM	2913	CD1	LEU	В	428		-11.155		1.00	11.95
n b						В						
14.		ATOM	2914	CD2	LEU		428	5.324		20.631	1.00	17.80
! !		ATOM	2915	C	LEU	В	428		-12.856		1.00	20.68
	2.5	MOTA	2916	0	LEU	В	428		-12.305		1.00	20.45
لدا	35	ATOM	2917	N	LEU	В	429		-14.178		1.00	20.35
Ш		ATOM	2918	CA	LEU	В	429		-15.082		1.00	19.82
		ATOM	2919	CB	LEU	В	429		-16.532		1.00	23.13
. .		ATOM	2920	CG	LEU	B	429	7.189	-16.839		1.00	21.85
'₩'		ATOM	2921	CD1	LEU	В	429	6.551	-18.123	21.494	1.00	25.39
تيو ا	40	MOTA	2922	CD2	LEU	В	429	7.537	-16.944	23.475	1.00	24.91
		ATOM	2923	C	LEU	В	429	10.361	-14.936	20.865	1.00	20.74
	•	ATOM	2924	0	LEU	В	429	11.318	-14.968	21.638	1.00	21.02
		ATOM	2925	N	ALA	В	430	10.495	-14.770	19.554	1.00	21.40
		ATOM	2926	CA	ALA	В	430		-14.609		1.00	
	45	ATOM	2927		ALA	В	430		-14.596		1.00	21.11
		ATOM	2928		ALA	В	430		-13.315		1.00	22.40
		ATOM	2929		ALA	В	430		-13.277		1.00	20.62
		MOTA	2930		THR	В	431		-12.258		1.00	21.09
		ATOM	2931		THR	В	431		-10.974		1.00	
	50											22.67
	30	ATOM	2932	CB	THR	В	431	11.128	-9.866	-	1.00	23.77
		MOTA	2933		THR	В	431	10.572			1.00	23.84
		ATOM	2934	CG2	THR	В	431	11.762			1.00	21.78
		MOTA	2935		THR	В	431		-11.037		1.00	21.98
		MOTA	2936		THR	В	431		-10.429		1.00	19.85
	55	MOTA	2937		SER	В	432		-11.773		1.00	24.24
		ATOM	2938	CA	SER	В	432	12.169	-11.906	23.693	1.00	26.96
		ATOM	2939	CB	SER	В	432	11.055	-12.661	24.423	1.00	28.00
		ATOM	2940	OG	SER	В	432		-12.888		1.00	30.31
		ATOM	2941		SER	В	432		-12.660		1.00	27.67
	60	ATOM	2942		SER	В	432	· · · · · · · · · · · · · · · · · · ·	-12.377		1.00	23.78
		ATOM	2943		SER	В	433		-13.628		1.00	29.27
		ATOM	2944		SER	В	433		-14.421		1.00	31.96
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	5	ATOM	2945	CB	SER	B	433	14.790	-15.575	21.938	1,00	30.84
		ATOM	2946	OG	SER	В	433	14.761	-16.808	22.625	1,00	38.26
		MOTA	2947	С	SER	В	433	16.104	-13.550	22.548	1.00	31.47
		MOTA	2948	·O	SER	В	433	17.204	-13.701	23.087	1.00	28.43
		ATOM	2949	N	ARG	B	434	15.878	-12.641	21.607	1.00	29.55
	10	ATOM	2950	CA	ARG	В	434	16.926	-11.739	21.165	1.00	29.40
		ATOM	2951	CB	ARG	В	434		-10.912		1.00	31.56
		ATOM	2952	CG	ARG	В	434	17.428		19.493	1.00	36.76
		ATOM	2953	CD	ARG	В	434		-10.502		1.00	37.76
		ATOM	2954	NE	ARG	В	434	19.654	•	18.516	1.00	39.50
	16											
	15	MOTA	2955	CZ	ARG	В	434	20.965		18,418	1.00	44.17
		MOTA	2956	NH1	ARG	В	434		-10.861		1.00	43.17
		ATOM	2957	NH2	ARG	В	434	21.750		18.048	1.00	43.05
		ATOM	2958	C	ARG	В	434		-10.827		1.00	29.15
		MOTA	2959	0	ARG	В	434		-10.612		1.00	28.82
	20	MOTA	2960	N	PHE	В	435		-10.297	23.039	1.00	24.88
		MOTA	2961	ÇA	PHE	В	435	16.600	-9.422	24.186	1.00	25.74
		ATOM	2962	CB	PHE	В	435	15.278	-8.972	24.825	1.00	26.53
		ATOM	2963	CG	PHE	В	435	14.656	-7.758	24.183	1.00	30.94
		ATOM	2964	CD1	PHE	В	435	15.118	-7.271	22.966	1.00	32,65
, a49,	25	ATOM	2965	CD2	PHE	В	435	13.592		24.797	1.00	33.60
		ATOM	2966	CE1	PHE	В	435	14.529		22.372	1.00	36.84
:0		ATOM	2967	CE2	PHE	В	435	12.997		24.208	1.00	34.96
IJ		ATOM	2968	CZ	PHE	В	435	13.468	-5.516		1.00	31.64
ΙĎ		ATOM	2969	C	PHE	В	435		-10.184		1.00	25.39
jab	30				PHE	В	435	18.414		25.764		22.59
· • [30	ATOM	2970	0							1.00	
الله أ		ATOM	2971	N	ARG	В	436		-11.405		1.00	24.58
1.0		ATOM	2972	CA	ARG	В	436		-12.253		1.00	30.25
#I		MOTA	2973	CB	ARG	В	436		-13.569		1.00	33.32
		ATOM	2974	CG	ARG	В	436		-14.358		1.00	38.17
IJ	35	ATOM	2975	CD	ARG	В	436		-15.367		1,00	37.27
لدا		MOTA	2976	NE	ARG	В	436	15.646	-16.085	27.086	1.00	43.92
5		MOTA	2977	CZ	ARG	B	436	14.433	-15.923	26.557	1.00	46.68
Ď		ATOM	2978	NHl	ARG	В	436	13.578	-15.061	27.097	1.00	45.59
Ü		MOTA	2979	NH2	ARG	В	436	14.074	-16.620	25.486	1.00	46.25
₩	40	ATOM	2980	C	ARG	В	436	19.110	-12.531	26.048	1.00	29.82
		ATOM	2981	0	ARG	В	436	20.057	-12.397	26.823	1.00	28.76
		MOTA	2982	N	AMET	В	437		-12.921		0.50	30.27
		ATOM	2983	N		В	437		-12.906		0.50	31.41
		ATOM	2984	CA	AMET	В	437		-13.212		0.50	31.98
	45	ATOM	2985	CA	BMET	В	437		-13.206		0.50	33.77
		ATOM	2986	CB		В	437		-13.646		0.50	31.34
		ATOM	2987	CB	BMET	В	437		-13.595		0.50	35.88
		ATOM	2988	CG	AMET	В	437		-15.127		0.50	33.62
	50	ATOM	2989	CG	BMET	В	437		-13.594		0.50	40.47
	30	ATOM	2990	SD	AMET	В	437		-16.099		0.50	35.21
		ATOM	2991	SD	BMET	В	437		-13.937		0.50	46.79
		ATOM	2992	CE	AMET	В	437		-16.194		0.50	33.20
		MOTA	2993	CE	BMET	В	437		-15.632		0.50	43.22
		MOTA	2994	С	AMET	В	437		-11.993		0.50	33.33
	55	ATOM	2995	C	BMET	В	437		-12.005		0.50	34.45
		ATOM	2996	0	AMET	В	437		-12.123		0.50	33.54
		ATOM	2997	0	BMET	В	437	22.699	-12.162	24.438	0.50	34.43
		ATOM	2998	N	MET	В	438	20.913	-10.809	24.215	1.00	32.07
		ATOM	2999	CA	MET	В	438	21.674	-9.560		1.00	32.48
	60	ATOM	3000	СВ	MET	В	438	20.930			1.00	29.74
		ATOM	3001	CG	MET	В	438	21.161			1.00	36.73
		ATOM	3002	SD	MET	В	438	20.425	-6.849		1.00	38.21
						~	-55	20.425	J. J. J	,,		J

•	5	ATOM	3003	CE	MET	В	438	21.693	-5.657 21	943	1.00	35.91
		MOTA	3004	С	MET	В	438	21.877	-9.122 25	.738	1.00	28.81
		ATOM	3005	0	MET	В	438	22.686	-8.240 26		1.00	30.13
		ATOM	3006	N	ASN	В	439	21.120	-9.721 26		1.00	27.14
		ATOM	3007	CA	ASN	В	439	21.199	-9.359 28		1.00	27.34
	10											
	10	MOTA	3008	CB	ASN	В	439	22.592	-9.524 28		1.00	34.85
		MOTA	3009	CG	ASN	В	439	22.624	-9.480 30		1.00	38.58
		MOTA	3010	OD1	ASN	В	439	21.584	-9.620 30	.724	1.00	42.99
		MOTA	3011	ND2	ASN	В	439	23.801	-9.260 30	.666	1.00	41.14
		ATOM	3012	C	ASN	В	439	20.745	-7.903 28	.212	1.00	26.24
	15	ATOM	3013	0	ASN	В	439	21.396	-7.106 28	8.891	1.00	19.76
		ATOM	3014	N	LEU	В	440	19.625	-7.564 27		1.00	24.90
		ATOM	3015	CA	LEU	В	440	19.061	-6.214 27		1.00	25.04
												22.36
		ATOM	3016	CB	LEU	В	440	17.761	-6.157 26		1.00	
		ATOM	3017	CG	LEU	В	440	17.087	-4.786 26		1.00	26.33
	20	MOTA	3018	CD1	LEU	В	440	17.958	-3.843 25		1.00	28.33
		MOTA	3019	CD2	LEU	В	440	15.704	-4.914 26		1.00	24.81
		MOTA	3020	С	LEU	В	440	18.782	-5.785 29	.074	1.00	24.71
		ATOM	3021	0	LEU	В	440	18.131	-6.504 29	.830	1.00	26.96
		MOTA	3022	N	GLN	В	441	19.268	÷4.609 29	.452	1.00	25.54
4 100%	25	ATOM	3023	CA	GLN	В	441	19.060	-4.099 30		1.00	25.82
12		ATOM	3024	CB	GLN	В	441	20.250	-3.231 31		1.00	30.41
Ō		ATOM	3025	CG	GLN	В	441	21.572	-3.956 31		1.00	30.50
ľ											•	
Ü		ATOM	3026	CD	GLN	В	441	21.610	-5.028 32		1.00	32.75
<u>.</u>	30	ATOM	3027	OE1	GLN	В	441	21.539	-4.772 33		1.00	36.52
1	30	ATOM	3028	NE2	GLN	В	441	21.703	-6.288 31		1.00	31.09
į.		MOTA	3029	С	GLN	В	441	17.789	-3.265 30	.883	1.00	26.93
Ų		MOTA	3030	0	GLN	В	441	17.303	-2.768 29	.866	1.00	25.40
		MOTA	3031	N	GLY	В	442	17.266	-3.105 32	.096	1.00	24.56
11 4===		ATOM	3032	CA	GLY	В	442	16.058	-2.327 32	.293	1.00	22.82
	35	MOTA	3033	С	GLY	В	442	16.217	-0.873 31		1.00	24.19
لِبا		ATOM	3034	Ō	GLY	В	442	15.290	-0.279 31		1.00	20.21
l.J		ATOM	3035	N	GLU	В	443	17.387	-0.293 32		1.00	22.92
	•	ATOM	3036	CA	GLU	B	443	17.635	1.102 31		1.00	23.33
ιÕ												
	40	MOTA	3037	CB	GLU	B	443	18.960	1.590 32		1.00	24.26
	40	ATOM	3038	CG	GLU	В	443	19.005	1.525 33		1.00	32.31
		ATOM	3039	CD	GLU	В	443	19.701	0.270 34		1.00	37.68
		MOTA	3040		GLU	В	443	19.343	-0.841 33	.948	1.00	35.23
		MOTA	3041	OE2	GLU	В	443	20.607	0.394 35	.252	1.00	42.47
		ATOM	3042	C	GLU	В	443	17.662	1.278 30	.262	1.00	23.08
	45	ATOM	3043	0	GLU	В	443	17.265	2.328 29	.747	1.00	21.80
		ATOM	3044	N	GLU	В	444	18.128	0.253 29	.552	1.00	21.16
		ATOM	3045	CA	GLU	В	444	18.182	0.302 28		1.00	22.60
		ATOM	3046	CB	GLU	В	444	19.046	-0.834 27		1.00	20.89
		ATOM	3047	CG	GLU	В	444	20.545	-0.617 27		1.00	
	50											23.24
	30	ATOM	3048	CD	GLU	В	444	21.340	-1.869 27		1.00	22.11
		ATOM	3049	OE1	GLU	В	444	20.817	-2.978 27		1.00	20.89
		ATOM	3050	OE2	GLU	В	444	22.488	-1.746 26		1.00	25.49
		ATOM	3051	С	GLU	В	444	16.758	0.155 27	. 552	1.00	21.06
		ATOM	3052	0	GLU	В	444	16.377	0.822 26	.597	1.00	23.73
	55	MOTA	3053	N	PHE	В	445	15.987	-0.730 28		1.00	19.01
		ATOM		CA	PHE	В	445	14.600	-0.969 27		1.00	19.44
		ATOM	3055	CB	PHE	В	445	13.989	-2.067 28		1.00	18.12
		ATOM	3056	CG	PHE	В	445	12.483	-2.055 28		1.00	18.13
		ATOM	3057	CD1	PHE	В	445	11.746	-2.386 27		1.00	18.34
	60											
	00	ATOM	3058	CD2	PHE	В	445	11.802	-1.694 29		1.00	16.59
		ATOM	3059	CE1	PHE	В	445	10.346	-2.359 27		1.00	17.15
		ATOM	3060	CEZ	PHE	В	445	10.406	-1.662 29	. 903	1.00	21.99

	5	AŢOM	3061	CZ	PHE	В	445	9.674	-1.997 28.755	1.00	16.01
		ATOM	3062	e	PHE	B	445	13.758	0.304 27.888	1.00	15.87
		ATOM	3063	0	PHE	В	445	13.008	0.617 26.966	1.00	20.27
		ATOM	3064	N	VAL	В	446	13.872	1.044 28.986	1.00	15.90
		ATOM	3065	CA	VAL	В	446	13.074	2.269 29.112	1.00	16.78
	10	ATOM	3066	CB	VAL	В	446	13.165	2.895 30.531	1.00	18.32
	••	ATOM	3067	CG1	VAL	В	446	12.574	1.923 31.551	1.00	21.14
		MOTA	3068	CG2	VAL	В	446	14.598	3.251 30.879	1.00	21.04
		MOTA	3069	С	VAL	B	446	13.450	3.295 28.051	1.00	17.91
	1.5	MOTA	3070	0	VAL	В	446	12.596	4.028 27.561	1.00	19.37
	15	ATOM	3071	N	CYS	B	447	14.723	3.335 27.674	1.00	18.81
		ATOM	3072	CA	CYS	B	447	15.161	4.255 26.635	1.00	17.34
		ATOM	3073	CB	CYS	В	447	16.682	4.224 26.512	1,00	19.33
		ATOM	3074	SG	CYS	B	447	17.538	5.134 27.798	1.00	23.60
		MOTA	3075	C	CYS	В	447	14.537	3.826 25.301	1.00	18.09
	20	ATOM	3076	0	CYS	В	447	13.988	4.643 24.563	1,00	17.52
		ATOM	3077	N	LEU	B	448	14.623	2.533 25.006	1.00	15.60
		ATOM	3078	CA	LEU	В	448	14.072	1.994 23.767	1.00	16.67
		ATOM	3079	CB	LEU	В	448	14.328	0.490 23.684	1.00	14.82
		ATOM	3080	CG	LEU	В	448	15.730	0.009 23.301	1.00	23.57
1 4750	25	MOTA	3081	CD1	LEU	В	448	15.722	-1.522 23.169	1.00	21.61
	23	ATOM		CD2	LEU	В	448	16.167			
Ø			3082						0.658 21.986	1.00	18.92
ijŲ		ATOM	3083	C	LEU	В	448	12.573	2.249 23.652	1.00	15.98
Œ		ATOM	3084	0	LEU	В	448	12.078	2.633 22.590	1.00	18.91
ځم	20	MOTA	3085	N	LYS	В	449	11.849	2.037 24.745	1.00	17.94
4	30	MOTA	3086	CA	LYS	В	449	10.405	2.232 24.733	1.00	16.66
الله أ		MOTA	3087	CB	LYS	В	449	9.796	1.745 26.047	1.00	16.45
1		MOTA	3088	CG	LYS	В	449	8.285	1.861 26.115	1.00	16.12
#I		MOTA	3089	CD	LYS	В	449	7.730	0.952 27.193	1.00	19.09
		MOTA	3090	CE	LYS	В	449	8.201	1.380 28,580	1.00	. 17.04
W	35	ATOM	3091	NZ	LYS	В	449	7.159	1.088 29.593	1.00	17.25
		MOTA	3092	C	LYS	В	449	10.058	3.696 24.486	1.00	18.78
لِيا		ATOM	3093	0	LYS	В	449	9.103	3.996 23.769	1.00	14.84
1		ATOM	3094	N	SER	В	450	10.837	4.610 25.059	1.00	14.50
Ū		MOTA	3095	CA	SER	В	450	10.591	6.032 24.849	1.00	17.11
ij.	40	ATOM	3096	CB	SER	В	450	11.440	6.866 25.815	1.00	21.20
		ATOM	3097	OG	SER	В	450	10.859	6.868 27,108	1.00	30.66
		ATOM	3098		SER	В	450	10.921	6.418 23.405		17.84
		ATOM	3099		SER	B	450	10.279	7.292 22.821	1.00	18.82
		ATOM	3100		ILE		451	11,926	5.768 22.828		
	45			N		В				1.00	16.88
	73	ATOM	3101	CA	ILE	В	451	12.305	6.063 21.450	1.00	17,11
		ATOM	3102	CB	ILE	В	451	13.564	5.268 21.025	1.00	16.69
		MOTA	3103	CG2	ILE	B	451	13.724	5.298 19.505	1.00	19.31
		ATOM	3104	CG1	ILE	В	451	14.804	5.897 21.676	1.00	18.96
		MOTA	3105	CD1	ILE	В	451	16.083	5.130 21.431	1.00	18.98
	50	ATOM	3106	Ç	ILE	В	451	11.142	5.711 20.527	1.00	18.09
		MOTA	3107	0	ILE	В	451	10.820	6.464 19.608	1.00	17.07
		ATOM	3108	N	ILE	В	452	10.505	4.571 20.786	1:00	18.13
		ATOM	3109	CA	ILE	В	452	9.373	4,137 19.976	1.00	16.77
		ATOM	3110	CB	ILE	В	452	8.804	2.775 20.477	1.00	17.40
	55	ATOM	3111	CG2	ILE	В	452	7.464	2.496 19.831	1.00	14.33
		ATOM	3112	CG1	ILE	В	452	9.763	1.635 20.107	1.00	15.36
		ATOM	3113	CD1	ILE	В	452	9.449	0.323 20.805	1.00	17.76
		ATOM	3114	C	ILE	В	452	8.271	5.195 20.024	1.00	17.47
		MOTA	3115	0	ILE	В	452 452	7.733	5.586 18.992	1.00	16.50
	60	ATOM									
	50			N	LEU	В	453	7.943	5.665 21.222	1.00	16.06
		ATOM	3117		LEU	В	453	6.903	6.680 21.374	1.00	17.17
		MOTA	3118	CB	LEU	В	453	6.736	7.061 22.850	1.00	16.23

	•	» mou	2110	00	T PIT	5	453	E 700	8.228 2	2 162	1.00	17.60
	5	MOTA	3119	CG	LEU	В	.453	5,792	7.881 2		1.00	16.94
		MOTA	3120	CDI	LEU	В	453	4.388				
		ATOM	3121	CD2	LEU	В	453	5.816	8.538 2		1.00	17.17
		Atom	3122	C	LEU	B	453	7.198	7.941 2		1.00	19.33
		ATOM	3123	0	LEU	B	453	6.320	8.458 1		1.00	21.37
	10	ATOM	3124	N	LEU	B	454	8.434	8.428 2		1.00	17.68
		MOTA	3125	CA	LEU	B	454	8.789	9.653 1		1.00	20.93
		ATOM	3126	CB	LEU	В	454	9.959	10.347 2	0.653	1.00	24.33
		ATOM	3127	CG	LEU	B	454	9.735	10.699 2	2.130	1.00	26.16
		MOTA	3128	CD1	LEU	B	454	11.046	11.170 2	2.749	1.00	24.82
	15	ATOM	3129	CD2	LEU	B	454	8.658	11.777 2	2.259	1.00	23.79
		ATOM	3130	C	LEU	B	454	9,120	9.494 1	8.449	1.00	20.75
		ATOM	3131	0	LEU	В	454	8.941	10.431 1	7.673	1.00	21.33
		ATOM	3132	N	ASN	В	455	9.566	8.311 1	8.042	1.00	20.54
		ATOM	3133	CA	ASN	В	455	9.951	8.093 1		1.00	19.46
	20	ATOM	3134	СВ	ASN	В	455	11.147	7.149 1		1.00	18.58
		ATOM	3135	CG	ASN	В	455	11.576	6.871 1		1.00	17.64
		ATOM	3136	OD1	ASN	В	455	12.106	7.749 1		1.00	18.40
		MOTA	3137	ND2	ASN	В	455	11.343	5.648 1		1.00	15.06
		ATOM	3138	C C	ASN	В	455	8.925	7.580 1		1.00	22.77
	25	MOTA	3139	0	asn	B	455	8.790	8.127 1		1.00	21.94
	23		3140	N	SER	В	456	8.224	6.514 1	•	1.00	25.90
Û		ATOM			SER	В	456	7.260	5.873 1		1.00	24.76
IJ		MOTA	3141	CA		В		6.402	4.894 1		1.00	26.91
Ü		ATOM	3142	CB	SER	_	456					26.24
nds.	20	MOTA	3143	OG	SER	В	456	7.212	3.818]		1.00	
المها	30	MOTA	3144	С	SER	B	456	6.385	6.774 1		1.00	26.52
-		ATOM	3145	0	SER	В	456	6.323	6.588 1		1.00	29.22
1		MOTA	3146	N	GLY	В	457	5.716	7.750 1		1.00	22.07
21		ATOM	3147	CA	GLY	В	457	4.879	8.627 1		1.00	25.19
		MOTA	3148	C	GLY	B	457	5.510	9.973 1		1.00	28.59
ij	35	MOTA	3149	0	GLY	B	457	4.851	10.850 1		1.00	28.31
וָּעָן		MOTA	3150	N	VAL	В	458	6.789	10.130 1		1.00	31.65
Ö		MOTA	3151	CA	VAL	В	458	7.486	11.396 1		1.00	38.50
		MOTA	3152	CB	VAL	В	458	8.950	11.310 1		1.00	36.24
Ü		ATOM	3153	CG1	VAL	В	458	9.827	10.650		1.00	38.50
ئظ'	40	ATOM	3154	CG2	VAL	В	458	9.463	12.699 1		1.00	39.84
•		ATOM ·	3155	C	VAL	В	458	7.483	11.982 1	12.464	1.00	46.30
		MOTA	3156	0	VAL	В	458	7.567	13.201 1		1.00	47.67
		ATOM	3157	N	TYR	В	459	7.393	11.138 1		1.00	50.45
		ATOM	3158	CA	TYR	B	459	7.385	11.640 1	10.069	1.00	57.07
	45	MOTA	3159	CB	TYR	B	459	8.233	10.740	9.170	1.00	57.05
		ATOM	3160	CG	TYR	B	459	9.673	10.680	9.611	1.00	59.29
		ATOM	3161	CD1	TYR	В	459	10.284	11.786 1	0.203	1.00	60.93
		ATOM	3162	CE1	TYR	В	459	11,591	11.725 1	.0.662	1.00	61.86
		MOTA	3163	CD2	TYR	В	459	10.414	9.510	9.486	1.00	59.46
	50	ATOM	3164	CE2	TYR	В	459	11.726	9.439	9.943	1.00	59.67
		ATOM	3165	CZ	TYR	В	459	12.305	10.548 1		1.00	60.84
		ATOM	3166	OH	TYR	В	459	13.593	10.477 1		1.00	61.39
		ATOM	3167	C	TYR	В	459	5.976	11.753	9.514	1.00	61.22
		ATOM	3168	Ö	TYR	В	459	5.629	12.750	8.874	1.00	62.89
	55	ATOM	3169	N	THR	В	460	5.166	10.730	9.768	1.00	65.15
		ATOM	3170	CA	THR	В	460	3.783	10.702	9.309	1.00	67.76
		ATOM	3171	CB	THR	В	460	3.178	9.283	9.464	1.00	68,02
		ATOM	3172	OG1	THR	В	460	1.890	9.235	8.836	1.00	67.03
		ATOM	3172	CG2	THR	В	460	3.040	8.916 1		1.00	67.31
	60	ATOM	3174	C	THR	В	460	2.945	11.700 1		1.00	70.14
		ATOM	3175	0	THR	В	460	1.715	11.641 1		1.00	72.35
		ATOM	3176		PHE	В	461	3.625	12.620 1		1.00	72.64
		ATOM	31/0	TA	FNL	0	40T	3.023	14.02V 1		2.00	, 2 , U T

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	5	MOTA	3177	CA	PHE	В	461	2.969	13.637 11.607	1.00	75.05
		ATOM	3178	CB	PHE	B	461	3.977	14.720 12.012	1.00	75.47
		ATOM	3179	CG	PHE	В	461	4.235	14.789 13.492	1.00	74.32
		MOTA	3180	CD1	PHE	В	461	3.200	14.609 14.404	1.00	73.98
		ATOM	3181	CD2	PHE	B	461	5.517	15.025 13.975	1.00	75.22
	10	ATOM	3182	CE1	PHE	В	461	3.438	14.662 15.775	1.00	74.02
	••	MOTA	3183	CE2	PHE	В	461	5.765	15.080 15.344	1.00	74.50
		ATOM		CZ	PHE	В	461	4.722	14.897 16.245	1.00	74.10
			3184								
		ATOM	3185	ę	PHE	В	461	1.787	14.286 10.896	1.00	76.78
		MOTA	3186	0	PHE	В	461	1.775	14.279 9.645	1.00	77.08
	15	ATOM	3187	CB	GLU	B	470	7.873	23.789 14.718	1,00	80.19
		ATOM	3188	C	GLU	В	470	8.958	21.731 15.650	1.00	79.30
		ATOM	3189	0	GLU	В	470	9.887	21.518 16.432	1.00	78.21
		ATOM	3190	N	GLU	B	470	9.096	22.235 13.227	1.00	80.22
		ATOM	3191	CA	GLU	В	470	9.060	22.830 14.595	1.00	80.03
	20	ATOM	3192	N	GLU	В	471	7.823	21.037 15.665	1.00	78.31
	20					В	471	7.596	19.956 16.617		75.83
		ATOM	3193	CA	GLU					1.00	
		MOTA	3194	CB	GLU	В	471	6.118	19.543 16.604	1.00	76.70
		MOTA	3195	CG	GLU	В	471	5.742	18.544 15.516	1.00	78.42
		ATOM	3196	CD	GLU	В	471	5.062	19.198 14.327	1.00	79.69
	25	MOTA	3197	OE1	GLU	B	471	3.829	19.398 14.378	1.00	80.26
1 mm2		ATOM	3198	OE2	GLU	В	471	5.763	19.511 13.340	1.00	80.72
i 🖸		ATOM	3199	С	GLU	В	471	8.487	18.756 16.292	1.00	73.13
ľŲ		ATOM	3200	ō	GLU	В	471	8.897	18.021 17.189	1.00	73.86
Ø		ATOM	3201	N	LYS	В	472	8.785	18.565 15.009	1.00	69.65
	30					В	472	9.639	17.461 14.581	1.00	64.40
100	30	AŢOM	3202	CA	LYS						
į ads		ATOM	3203	СВ	LYS	В	472	9.578	17.293 13.060	1.00	63.78
1.4		ATOM	3204	CG	LYS	В	472	8.343	16.552 12.566	1.00	64.49
ti		ATOM	3205	CD	LYS	В	472	8.544	16.002 11.161	1.00	63.81
		ATOM	3206	CE	LYS	В	472	7.379	16.368 10.249	1.00	.64.90
ੀਵੜੀ 1.1	35	ATOM	3207	NZ	LYS	В	472	6.475	15.212 9.990	1.00	63.97
لنا		ATOM	3208	C	LYS	В	472	11.071	17.749 15.014	1.00	61.03
لدا		ATOM	3209	0	LYS	В	472	11.848	16.833 15.287	1.00	60.28
		ATOM	3210	N	ASP	В	473	11.413	19.033 15.076	1.00	56.84
ı Li		ATOM	3211	CA	ASP	В	473	12.745	19.451 15.488	1.00	51.69
Ö	40	ATOM	3212	CB	ASP	В	473	12.923	20.940 15.242	1.00	50.36
	70										
		ATOM	3213	C	ASP	B	473	12.923	19.138 16.970	1.00	49.18
		ATOM	3214	0	ASP	В	473	13.959	18.619 17.385	1.00	46.85
	•	ATOM	3215	N	HIS	В	474	11,898	19.449 17.758	1.00	45.35
		ATOM	3216	CA	HIS	В	474	11.923	19.203 19.196	1.00	43.65
	45	ATOM	3217	CB	HIS	В	474	10.652	19.761 19.847	1.00	43,70
		ATOM	3218	CG	HIS	В	474	10.458	19.326 21.267	1.00	43.86
		ATOM	3219	CD2	HIS	В	474	11.095	19.688 22.406	1.60	44.12
		ATOM	3220	ND1	HIS	В	474	9.510	18.395 21.638	1.00	46.60
		ATOM	3221	CE1	HIS	В	474	9.572	18.202 22.943	1.00	45.29
	50										
	50	ATOM	3222	NE2	HIS	В	474	10.526	18.975 23.434	1.00	47.96
		ATOM	3223	Ċ	HIS	В	474	12.030	17.707 19.471	1.00	42.38
		ATOM	3224	0	HIS	B	474	12.834	17.273 20.298	1.00	42.83
		MOTA	3225	N	ILE	В	475	11.214	16.923 18.773	1.00	38.86
		ATOM	3226	CA	ILE	В	475	11.222	15.475 18.943	1.00	36.53
	55	ATOM	3227	CB	ILE	В	475	10.105	14.822 18.110	1.00	36.56
	-	ATOM	3228	CG2	ILE	В	475	10.390	13.335 17.911	1.00	36.17
		ATOM	3229	CG1	ILE	В	475	8.770	14.998 18.832	1.00	35.81
		ATOM	3230	CD1	ILE	В	475	7.598	14.410 18.094	1.00	41.77
	60	ATOM	3231	C	ILE	В	475	12.575	14.898 18.532	1.00	33.72
	60	ATOM	3232	0	ILE	В	475	13.112	14.023 19.207	1.00	31.50
		ATOM		N	HIS	В	476	13.121	15.375 17.429	1.00	33.65
		ATOM	3234	CA	HIS	В	476	14.421	14.886 16.992	1.00	33.31
								005			

	5	ATOM	3235	CB	HIS	В	476	14.782	15.481 15.637	1.00	37.30
		ATOM	3236	CG	HIS	₿	476	14.132	14.781 14.486	1.00	43.64
		MOTA	3237	CD2	HIS	В	476	13.723	13.498 14.342	1.00	45.25
		ATOM	3238	ND1	HIS	В	476	13.816	15.419 13.306	1.00	48.37
						В			14.560 12.484		
		ATOM	3239	CE1	HIS	_	476	13.238	· .	1.00	48.87
	10	MOTA	3240	NE2	HIS	В	476	13.170	13.387 13.089	1.00	48.11
		ATOM	3241	C	HIS	В	476	15.506	15.213 18.022	1.00	31.20
		MOTA	3242	0	HIS	В	476	16.442	14.436 18.208	1.00	27.25
		ATOM	3243	N	ARG	В	477	15.387	16.365 18.684	1.00	30.64
		ATOM	3244	CA	ARG	В	477	16.361	16.754 19.703	1.00	30.09
	15	ATOM	3245	CB	ARG	В	477	16.144	18.214 20.121	1.00	33.46
	13										
		ATOM	3246	CG	ARG	В	477	16.322	19.212 18.982	1.00	40.74
		ATOM	3247	CD	ARG	В	477	16.274	20.649 19.479	1.00	45.91
		MOTA	3248	NE	ARG	В	477	17.514	21.020 20.155	1.00	51.37
		ATOM	3249	CZ	ARG	В	477	18,375	21.927 19.702	1.00	53.68
	20	ATOM	3250	NH1	ARG	В	477	18.140	22.567 18.560	1.00	53.04
		ATOM	3251	NH2	ARG	В	477	19.480	22.185 20.389	1.00	51.79
		ATOM	3252	C	ARG	В	477	16.232	15.835 20.925	1.00	26.97
		ATOM	3253	0	ARG	В	477	17.233	15.387 21.486	1.00	27.34
							478				
	25	ATOM	3254	И	VAL	В	-	14.999	15.558 21.338	1.00	23.70
	25	ATOM	3255	CA	VAL	В	478	14.780	14.685 22.482	1.00	24.79
Û		MOTA	3256	CB	VAL	В	478	13.286	14.613 22.861	1.00	24.83
ĪŪ		ATOM	3257	CG1	VAL	В	478	13.088	13.646 24.022	1.00	26.23
Ü		ATOM	3258	CG2	VAL	В	478	12.781	15.996 23.243	1.00	28.26
		ATOM	3259	C	VAL	В	478	15.284	13.294 22.112	1.00	26.10
-	30	ATOM	3260	0	VAL	В	478	15.919	12.613 22.927	1.00	24.28
V	-	ATOM	3261	N	LEU	В	479	15.021	12.889 20.870	1.00	22.92
4		ATOM	3262	CA	LEU	В	479	15.456	11.584 20.379	1.00	21.96
٠.٠		ATOM		CB	LEU	В	479	14.992	11.372 18.930	1.00	22.63
£i .			3263	-							
	3.5	ATOM	3264	CG	LEU	В	479	13.575	10.798 18.756	1.00	20.82
lil	35	ATOM	3265	CD1	LEU	В	479	13.231	10.689 17.274	1.00	22.53
1.1		ATOM	3266	CD2	LEU	В	479	13.495	9.440 19.420	1.00	23.08
, ,,,		MOTA	3267	C	LEU	В	479	16.975	11.471 20.453	1.00	21.90
		ATOM	3268	0	LEU	В	479	17.506	10.416 20.778	1.00	23.11
1		ATOM	3269	N	ASP	В	480	17.675	12.560 20.143	1.00	23.65
	40	ATOM	3270	CA	ASP	В	480	19,141	12.566 20.198	1.00	24.29
•		ATOM	3271	CB	ASP	В	480	19.692	13.889 19.649	1.00	26.88
		ATOM	3272	CG	ASP	В	480	19.773	13.914 18.129	1.00	33.32
						_					35.44
		MOTA	3273	OD1	ASP	В	480	19.857	12.836 17.499	1.00	
	45	ATOM	3274	OD2	ASP	В	480	19.757	15.022 17.563	1.00	32.44
	45	ATOM	3275	C	ASP	В	480	19.590	12.406 21.656	1.00	24.13
		MOTA	3276	0	ASP	В	480	20.551	11.697 21.956	1.00	24.88
		MOTA	3277	N	LYS	В	481	18.887	13.077 22.560	1.00	25.18
		ATOM	3278	CA	LYS	В	481	19.213	13.010 23.980	1.00	26.78
		ATOM	3279	CB	LYS	В	481	18.262	13.898 24.785	1.00	31.37
	.50	ATOM	3280	CG	LYS	В	481	18.962	14.788 25.804	1.00	43.84
	.50	ATOM	3281	CD	LYS	B	481	18.780	14.260 27.219	1.00	46.08
		MOTA	3282	CE	LYS	B	481	20.120	13.928 27.865	1.00	50.99
		MOTA	3283	NZ	LYS	В	481	21.177	14.922 27.511	1.00	54.35
		MOTA	3284	C	LYS	В	481	19.124	11.575 24.495	1.00	26.87
	55	MOTA	3285	0	LYS	В	481	19.951	11.145 25.305	1.00	20.37
		MOTA	3286	N	ILE	В	482	18.124	10.830 24.027	1.00	23.26
		ATOM	3287	CA	ILE	В	482	17.981	9,452 24,472	1.00	21.07
		MOTA	3288	CB	ILE	В	482	16.655	8.828 24.015	1.00	19.80
		ATOM	3289	CG2	ILE	В	482	16.580	7.370 24.491	1.00	17.40
	60	ATOM	3290	CG1	ILE	В	482	15.479	9.606 24.602	1.00	17.16
		ATOM					482		9.209 23.991		19.43
			3291	CD1	ILE	В		14.136		1.00	
		ATOM	3292	С	ILE	В	482	19.135	8.616 23.947	1.00	20.21
								~ ~ ~			

	5	ATOM	3293	0	ILE	₿	482	19.621	7.722 24.640	1.00	25.55
		ATOM	3294	N	THR	В	483	19.569	8.896 22.722	1.00	21.89
		ATOM	3295	CA	THR	В	483	20.701	8.176 22.141	1.00	22.67
		ATOM	3296	CB	THR	В	483	21.030	8.662 20.695	1.00	23.34
		ATOM	3297	OG1	THR	B	483	19.890	8.475 19.851	1.00	27.33
	10	ATOM	3298	CG2	THR	В	483	22.203	7.882 20.116	1.00	24.46
		MOTA	3299	C	THR	В	483	21.913	8.441 23.035	1.00	23.51
		MOTA	3300	0	THR	В	483	22.650	7.520 23.381	1.00	27.01
		ATOM	3301	N	ASP	В	484	22.119	9.703 23.404	1.00	22.88
		ATOM	3302	CA	ASP	В	484	23.237	10.058 24.276	1.00	24.93
	15	ATOM	3303	CB	ASP	В	484	23.201	11.546 24.652	1.00	28.69
		ATOM	3304	CG	ASP	В	484	23.504	12.464 23.485	1.00	29.19
		ATOM	3305	OD1	ASP	В	484	23.982	11.984 22.437	1.00	29.63
		ATOM	3306	OD2	ASP	В	484	23.256	13.681 23.627	1.00	32.02
		ATOM	3307	C	ASP	В	484	23.125	9.249 25.567	1.00	24.40
	20	ATOM	3308	Ö	ASP	В	484	24.125	8.780 26.103	1.00	25.60
		ATOM	3309	N	THR	В	485	21.899	9.096 26,066	1.00	20.16
		ATOM	3310	CA	THR	В	485	21.670	8.365 27.307	1.00	22.28
		ATOM	3311	CB	THR	В	485	20.203	8.521 27.763	1.00	24.64
		ATOM	3312	OG1	THR	В	485	19.878	9.914 27.830	1.00	24.28
: 155	25	ATOM	3313	CG2	THR	В	485	19.993	7.896 29.133	1.00	23.32
	23	ATOM	3314	C	THR	В	485	22.017	6.881 27.188	1.00	22.13
Q		ATOM	3315	0	THR	В	485	22.574	6.284 28.115	1.00	23.30
IU		ATOM	3316	Ŋ	LEU	В	486	21.686	6.290 26.045	1.00	23.08
Ü		ATOM	3317	CA.	LEU	В	486	21.969	4.881 25.792	1.00	22.26
-	30	ATOM	3318	CB	LEU	В	486	21.346	4.452 24.464	1.00	20.93
'N	30	ATOM	3319	CG	LEU	В	486	19.878	4.031 24.533	1.00	24.92
4							486		4.003 23.123		21.96
, 4		ATOM	3320	CD1	LEU	В	486	19.295 19.763	2.658 25.196	1.00 1.00	23.90
9 !		ATOM	3321	CD2	LEU	В					
	35	ATOM	3322	C	LEU	В	486	23.477	4.634 25.742	1.00	24.12
لدا	33	ATOM	3323	0	LEU	В	486	23.984	3.681 26.334	1.00	24.02
IJ		ATOM	3324	N	ILE	В	487	24.191	5.490 25.022	1.00	24.53
		MOTA	3325	CA	ILE	В	487	25.640	5.345 24.913	1.00	25.16
ū		ATOM	3326	CB	ILE	В	487	26.207	6.379 23.899	1.00	25.57
Ē	40	ATOM	3327	CG2	ILE	В	487	27.725	6.522 24.051	1.00	24.54
	40	ATOM	3328	CG1	ILE	В	487	25.857	5.936 22,470	1.00	25.63
		MOTA	3329	CD1	ILE	В	487	26.538	4.646 22.021	1.00	25.68
		ATOM	3330	C	ILE	B	487	26.275	5.518 26.307	1.00	23.60
	-	MOTA		0	ILE	B	487	27.200	4.794 26.671	1.00	23,65
	4.5	MOTA	3332	N	HIS	В	488	25.755	6.456 27.081	1.00	21.75
	45	ATOM	3333	CA	HIS	В	488	26.251	6.720 28.431	1.00	26.07
		ATOM	3334	CB	HIS	B	488	25.450	7.871 29.041	1.00	26.99
		ATOM	3335	CG	HIS	В	488	25.818	8.196 30.455	1.00	33.06
		ATOM	3336	CD2	HIS	В	488	25.245	7.838 31,629	1.00	32.79
		ATOM	3337	ND1	HIS	В	488	26.869	9.025 30.779	1.00	36.45
	50	ATOM	3338	CE1	HIS	В	488	26.927	9.164 32.091	1.00	35.93
		ATOM	3339	NE2	HIS	В	488	25.953	8.453 32.630	1.00	33.88
		ATOM	3340	C	HIS	В	488	26.123	5.463 29.292	1.00	26.85
		ATOM	3341	0	HIS	В	488	27.071	5.054 29.967	1.00	28.52
		MOTA	3342	N	LEU	В	489	24.949	4.850 29.266	1.00	28.00
	55	ATOM	3343	CA	LEU	В	489	24.715	3.642 30.040	1.00	25.94
		ATOM	3344	CB	LEU	В	489	23.298	3.127 29.788	1.00	27.07
		ATOM .	3345	CG	LEU	В	489	22.158	3.909 30.445	1.00	31.71
		ATOM	3346	CD1	LEU	В	489	20.827	3.516 29.799	1.00	28.08
		ATOM	3347	CD2	LEU	В	489	22.143	3.616 31.949	1.00	29.30
	60	ATOM	3348	С	LEU	В	489	25.718	2.561 29.642	1.00	26.84
		ATOM	3349	0	LEU	В	489	26.241	1.832 30.486	1.00	20.86
		ATOM	3350	N	MET	B	490	25.978	2.453 28.345	1.00	23.82

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	5	ATOM	3351	CA	MET	В	490	26.900	1.438	27.857	1.00	26.38
		MOTA	3352	CB	MET	В	490	26.775	1.306	26.336	1.00	27.29
		ATOM	3353	CG	MET	В	490	25.418	0.776	25.895	1.00	21.68
		ATOM	3354	SD	MET	В	490	25.208		24.106	1.00	26.30
		MOTA		CE		В	490			24.022	1.00	
	10		3355		MET			23.461				19.66
	10	MOTA	3356	C	MET	В	490	28.341	·	28.247	1.00	26.42
		ATOM	3357	0	MET	В	490	29.109	0.833	28.574	1.00	24.76
		ATOM	3358	N	ALA	В	491	28.713	3.018	28.207	1.00	26.67
		ATOM	3359	CA	ALA	В	491	30.074	3.394	28.577	1.00	30.73
		ATOM	3360	CB	ALA	В	491	30.299		28.335	1.00	26.66
	15	ATOM	3361	C	ALA	В	491	30.250		30.056	1.00	32.08
	13											
		ATOM	3362	0	ALA	В	491	31.194		30.438	1.00	34.66
		MOTA	3363	N	LYS	В	492	29.316		30.878	1.00	33,17
		MOTA	3364	CA	LYS	В	492	29.354		32.309	1.00	32.82
		MOTA	3365	CB	LYS	В	492	28.110	3.849	32.976	1.00	36.38
	20	ATOM	3366	CG	LYS	В	492	28.412	4.797	34.123	1.00	38.68
		ATOM	3367	CD	LYS	В	492	27.242	4.887	35.084	1.00	41.41
		ATOM	3368	CE	LYS	В	492	26.299		34.698	1.00	47.57
		ATOM	3369	NZ	LYS	В	492	26.395		35.618	1.00	50.76
	0.5	MOTA	3370	C	LYS	В	492	29.453		32.619	1.00	34.08
	25	ATOM	3371	0	LYS	В	492	30.090		33.593	1.00	34.31
Ō		MOTA	3372	N	ALA	В	493	28.835	0.935	31.788	1.00	32.03
เป็		MOTA	3373	CA	ALA	В	493	28.867	-0.510	31.998	1.00	30.70
		ATOM	3374	CB	ALA	В	493	27.719	-1.181	31.245	1.00	28.80
(X)		ATOM	3375	С	ALA	В	493	30.201	-1.156		1.00	33.75
خد	30	ATOM	3376	ō	ALA	В	493	30.402	-2.356		1.00	30.53
4	50	ATOM	3377	N	GLY	В	494				1.00	
ك.								31.102	-0.372			33.50
** <u>*</u>		ATOM	3378	CA	GLY	В	494	32.405	-0.903		1.00	33,71
11		MOTA	3379	C	GLY	В	494	32.639	-1.360		1.00	34.40
		ATOM	3380	0	GLY	В	494	33.663	-1.989	28.950	1.00	33.13
[L]	35	ATOM	3381	N	LEU	В	495	31.712	-1.056	28.326	1.00	31.76
		ATOM	3382	CA	LEU	В	495	31.859	-1.452	26.925	1.00	30.57
[1]		ATOM	3383	CB	LEU	В	495	30.494	-1.415		1.00	30.67
		ATOM	3384	CG	LEU	В	495	29.610	-2.675		1.00	29.59
۱ <u>D</u>		ATOM	3385	CD1	LEU	В	495	29.315	-3.058		1.00	26.60
O	40											
	40	ATOM	3386	CD2	LEU	В	495	28.307	-2.416		1.00	27.52
		ATOM	3387	C	ΓËΩ	В	495	32.829	-0.515		1.00	30.53
		MOTA	3388	0	LEU	В	495	32.855		26.468	1.00	28.14
		ATOM	3389	N	THR	В	496	33.628	-1.064	25.291	1.00	28.03
		ATOM	3390	CA	THR	В	496	34.567	-0.243	24.529	1.00	29.06
	45	ATOM	3391	CB	THR	В	496	35.511	-1.095	23.665	1.00	29.40
		ATOM	3392	OG1	THR	В	496	34.753	-1.758		1.00	30.29
		ATOM	3393	CG2	THR	В	496	36.228	-2.122		1.00	28.12
							496					30.12
		ATOM	3394	C	THR	В		33.770		23.590	1.00	
		MOTA	3395	0	THR	В.	496	32.580		23.380	1.00	29.74
	50	ATOM	3396	N	LEU	В	497	34.430		23.018	1.00	30.44
		MOTA	3397	CA	LEU	В	497	33.762	2.567	22.104	1.00	28.54
		ATOM	3398	CB	LEU	В	497	34.768	3.564	21.529	1.00	31.14
		ATOM	3399	CG	LEU	В	497	35.209	4.719	22.434	1.00	33.58
		ATOM	3400	CD1	LEU	В	497	36.120		21.652	1.00	31.42
	55	ATOM	3401	CD2	LEU	В	497	33.992		22.942	1.00	35.08
	-											
		ATOM	3402	C	LEU	В	497	33.095		20,967	1.00	27.35
		ATOM	3403	0	LEU	В	497	31.967		20.574	1.00	24.03
		ATOM	3404	N	GLN	В	498	33.798		20.447	1.00	26.17
		ATOM	3405	CA	GLN	B	498	33.289	-0.009	19.348	1.00	26.32
	60	ATOM	3406	CB	GLN	В	498	34.411	-0.876	18.771	1.00	27.25
		ATOM	3407	CG	GLN	В	498	33.967	-1.796		1.00	32.67
		ATOM	3408	CD	GLN	В	498	34.965	-2.912		1.00	38.39
			•			-						

	5	ATOM	3409	OE1	GLN	В	498	35.737	-3.298 18.254	1.00	36.78
		MOTA	3410	NE2	GLN	В	498	34.953	-3.437 16.153	1.00	33.18
		MOTA	3411	C	GLN	В	498	32.112	-0.888 19.774	1.00	25.70
		ATOM	3412	0	GLN	В	498	31.167	-1.076 19.009	1.00	25.35
		ATOM	3413	N	GLN	В	499	32.173	-1.434 20.986	1.00	24.01
	10	ATOM	3414	CA	GLN	В	499	31.093	-2.281 21.487	1.00	25.34
	10										
		MOTA	3415	CB	GLN	В	499	31.501	-2.935 22.815	1.00	28.38
		MOTA	3416	CG	GLN	В	499	32.537	-4.056 22.669	1.00	29.13
		MOTA	3417	CĐ	GLN	B	499	32.913	-4.687 23.995	1.00	30.80
		MOTA	3418	OE1	GLN	B	499	33.306	-3.997 24.937	1.00	33.62
	15	ATOM	3419	NE2	GLN	B	499	32.797	-6.004 24.074	1.00	30.64
		ATOM	3420	C	GLN	В	499	29.842	-1.430 21,693	1.00	25.70
		ATOM	3421	0	GLN	В	499	28.715	-1.910 21.554	1.00	26.22
		ATOM	3422	N	GLN	В	500	30.062	-0.160 22.020	1.00	23.09
		ATOM	3423	CA	GLN	В	500	28.989	0.793 22.256	1.00	23.53
	20					B	500	29.564	2.107 22.782	1.00	26.17
	20	ATOM	3424	CB	GLN				•		
		ATOM	3425	CG	GLN	B	500	29.958	2.073 24.252	1.00	27.71
		ATOM	3426	CD	GLN	B	500	30.812	3.262 24.641	1.00	29.32
		MOTA	3427	OE1	GLN	В	500	30.559	4.386 24.207	1.00	28.48
		ATOM	3428	NE2	GLN	B	500	31.831	3.021 25.463	1.00	25.07
	25	ATOM	3429	C	GLN	В	500	28.151	1.074 21.015	1.00	24.24
		ATOM	3430	0	GLN	B	500	26.923	0.949 21.053	1.00	24.40
ıD.		ATOM	3431	N	HIS	В	501	28.790	1.465 19.915	1.00	23.08
IU		ATOM	3432	CA	HIS	В	501	28.004	1.739 18.724	1.00	26.92
Ü		ATOM	3433	CB	HIS	В	501	28.791	2.577 17.697	1.00	32.00
∽	30	ATOM	3434	CG	HIS	В	501	29.988	1.896 17.105	1.00	36.97
'\	30					B	501	30.122	0.710 16.465	1.00	40.32
-		ATOM	3435	CD2	HIS						
14		MOTA	3436	ND1	HIS	B	501	31.224	2.505 17.042	1.00	37.88
11		MOTA	3437	CE1	HIS	В	501	32.066	1.724 16.389	1.00	38.81
		ATOM	3438	NE2	HIS	В	501	31.422	0.628 16.028	1.00	41.21
Į.J	35	MOTA	3439	C	HIS	B	501	27.451	0.457 18.123	1.00	25.91
1.1		ATOM	3440	0	HIS	В	501	26.369	0.457 17.531	1.00	20.13
Ш		MOTA	3441	N	GLN	В	502	28.165	-0.648 18.317	1.00	24.94
		ATOM	3442	CA	GLN	В	502	27.698	-1.926 17.804	1.00	21.88
ıΩ		ATOM	3443	CB	GLN	В	502	28.785	-2,996 17.953	1.00	24.62
Û	40	ATOM	3444	CG	GLN	В	502	29,796	-3.001 16.797	1.00	26.55
	. •	ATOM	3445	CD	GLN	В	502	30.843	-4.109 16.902	1.00	27.06
		ATOM	3446		GLN	В	502	30.716	-5.033 17.705		28.49
									-4.018 16.078	1.00	21.90
		ATOM	3447		GLN	B	502	31.882			
	4 /	ATOM	3448	C	GLN	В	502	26.428	-2.341 18.554	1.00	22.39
	45	MOTA		0	GLN	В	502	25.464	-2.807 17.944	1.00	22.24
		ATOM	3450	N	ARG	В	503	26.421	-2.159 19.874	1.00	20.54
		ATOM	3451	CA	ARG	В	503	25.259	-2.523 20.678	1,00	22.04
		ATOM	3452	CB	ARG	В	503	25.602	-2.519 22.180	1.00	22.51
		ATOM	3453	CG	ARG	В	503	24.451	-3.022 23.077	1.00	23.34
	50	MOTA	3454	CD	ARG	В	503	24.853	-3.110 24.550	1.00	22.18
		ATOM	3455	NE	ARG	В	503	23.743	-3.546 25.395	1.00	19.62
		ATOM	3456	CZ	ARG	В	503	23.329	-4.807 25.497	1,00	19.88
		ATOM	3457	NH1	ARG	В	503	23.933	-5.765 24.809	1.00	16.40
									-5.110 26.280	1.00	
	e e	ATOM	3458	NH2	ARG	В	503	22.303			19.71
	55	ATOM	3459	C	ARG	В	503	24.102	-1.558 20.409	1.00	19.05
		ATOM	3460	0	ARG	В	503	22.945	-1.968 20.351	1.00	18.87
		MOTA	3461	N	LEU	В	504	24.414	-0.276 20.239	1.00	20.19
		ATOM	3462	CA	LEU	В	504	23.375	0.714 19.969	1.00	19.33
		ATOM	3463	CB	LEU	B	504	23.972	2.117 19.855	1.00	16.25
	60	ATOM	3464	CG	LEU	В	504	22.983	3.173 19.344	1.00	20.35
		ATOM	3465	CD1	LEU	В	504	21.930	3.449 20.427		17.97
		ATOM	3466		LEU	В	504	23.729	4.448 18.955		20.86
			-			-	-	209		, .	
								7117			

	5	MOTA	3467	C	LEU	В	504	22.659	0.357 18.	667 1.0	0 21.22
		MOTA	3468	0	LEU	В	504	21.433	0.478 18.	566 1.6	0 19.28
		ATOM	3469	N	ALA	B	505	23.428	-0.085 17.	676 1.0	0 18.55
		ATOM	3470	CA	ALA	В	505	22.859	-0.473 16.	396 1.6	0 18.20
		MOTA	3471	CB	ALA	В	505	23.973	-0.745 15.	382 1.0	0 18.45
	10	ATOM	3472	C	ALA	B	505	21.986	-1.716 16.		
		ATOM	3473	ō	ALA	В	505	20.871	-1.774 16.		
		ATOM	3474	И	GLN	В	506	22.497	-2.706 17.		
							506		-3.955 17.		
		ATOM	3475	CA	GLN	B		21.772			
	1.5	ATOM	3476	CB	GLN	B	506	22.590	-4.893 18.		
	15	ATOM	3477	CG	GLN	B	506	23.798	-5.551 17.	•	
		MOTA	3478	CD	GLN	B	506	24.819	-6.070 18.		
		MOTA	3479	OE1	GLN	В	506	24.564	-6.084 19.		
		MOTA	3480	NE2	GLN	B	506	25.977	-6.499 18.		
		MOTA	3481	C	GLN	B	506	20.421	-3.672 18.	166 1.0	0 21.39
	20	MOTA	3482	0	GLN	В	506	19.396	-4.233 17.	766 1.0	0 20.87
		ATOM	3483	N	LEU	B	507	20.433	-2.800 19.	171 1.6	0 19.52
		ATOM	3484	CA	LEU	В	507	19.219	-2.418 19.	884 1.6	0 23.04
		MOTA	3485	CB	LEU	В	507	19.548	-1.455 21.	030 1.6	0 22.82
		MOTA	3486	CG	LEU	В	507	20.182	-2.011 22.		0 26.12
/ HES	25	ATOM	3487	CD1	LEU	В	507	20.203	-0.916 23.		
		ATOM	3488	CD2	LEU	В	507	19.415	-3.213 22.		
Ď		ATOM	3489	C	LEU	В	507	18.212	-1.730 18.		
ľ		ATOM	3490	0	LEU	В	507	17.036	-2.070 18.		
Ū					LEU	В	508	18.678	-0.745 18.		
4	30	ATOM	3491	N					0.006 17.		
1	30	ATOM	3492	CA	LEU	В	508	17.797			
-		ATOM	3493	CB	LEU	В	508	18.535	1.236 16.		
'		MOTA	3494	CG	LEU	В	.508	18.934	2.218 17.		
ŧ!		MOTA	3495	CD1	LEU	В	508	19.566	3.446 17.		
		ATOM	3496	CD2	LEU	В	508	17.724	2.611 18.		
L	35	MOTA	3497	C	LEU	В	508	17.235	-0.831 16.		
لدا		MOTA	3498	0	LEU	В	508	16.118	-0.597 15.		
		MOTA	3499	N	LEU	В	509	18.000	-1.813 15.		•
Ď		ATOM	3500	C,A	LEU	B	509	17.511	-2.657 14.		
Õ		ATOM	3501	CB	LEU	B	509	18.603	-3.597 14.		0 22.65
7	40	MOTA	3502	CG	LEU	В	509	19,645	-2.891 13.	278 1.6	0 29.11
		ATOM	3503	CD1	LEU	В	509	20.697	-3.888 12.	829 1.0	0 25.69
		ATOM	3504	CD2	LEU	B	509	18.965	-2.248 12.	082 1.0	0 27.92
		ATOM	3505	e	LEU	В	509	16.302	-3.462 15.	095 1.0	0 23.32
		ATOM	3506	0	LEU	B	509	15.409	-3.759 14.		
	45	ATOM		N	ILE	В	510	16.264	-3.796 16.		
		ATOM	3508		ILE	В	510	15.148	-4.562 16.		
		ATOM	3509	CB	ILE	B	510	15.448	-5.041 18.		
		ATOM	3510	CG2	ILE	В	510	14.162	-5.435 19.		
		ATOM		CG1	ILE	В	510	16.383	-6.260 18.		
	50						510	17.429	-6.301 19.		
	30	MOTA	3512	CD1	ILE	В					
		MOTA	3513	C	ILE	В	510	13.852	-3.746 16.		
		ATOM	3514	0	ILE	В	510	12.767	-4.308 16.		
		ATOM	3515	N	LEU	В	511	13.961	-2.421 16.		
	<i>E C</i>	ATOM	3516	CA	LEU	В	511	12.772	-1.574 16.		
	55	ATOM	3517	CB	LEU	В	511	13.147	-0.100 16.		
		ATOM	3518	CG	LEU	В	511	13.607	0.262 18.		
		ATOM	3519	CD1	LEU	В	511	13.404	1,751 18.		
		ATOM	3520	CD2	LEU	В	511	12.830	-0.549 19.	425 1.0	0 25.08
		ATOM	3521	С	LEU	В	511	12.112	-1.771 15.3	397 1.0	0 16.65
	60	ATOM	3522	0	LEU	В	511	10.915	-1.578 15.3	242 1.0	0 17.09
		ATOM	3523	N	SER	В	512	12.901	-2.161 14.		0 15.83
		ATOM	3524		SER	В	512	12.355	-2.408 13.0		
				-					 •		

	5	ATOM	3525	CB	SER	В	512	13.484	-2.644 12.074	1.00	17.62
		ATOM	3526	QG	SER	В	512	13,079	-3.550 11.062	1.00	32,77
		ATOM	3527	С	SER	В	512	11.454	-3.638 13.154	1.00	18.54
		ATOM	3528	Ō	SER	В	512	10.373	-3.683 12.545	1.00	17.01
		ATOM	3529	N	HIS	В	513	11.899	-4.625 13.929	1.00	15.54
	10	ATOM	3530	CA	HIS	В	513	11.141	-5.860 14.115	1.00	17,67
	10					В	513	12.013	-6.916 14.790	1.00	19.03
		MOTA	3531	CB	HIS						
		MOTA	3532	CG	HIS	В	513	13.063	-7.475 13.886	1.00	27.06
		MOTA	3533	CD2	HIS	B	513	12.980	-8.364 12.868	1.00	28.40
		MOTA	3534	NDl	HIS	В	513	14.378	-7.066 13.932	1.00	28.92
	15	ATOM	3535	CEL	HIS	B	513	15.061	-7.678 12.981	1.00	30.75
		MOTA	3536	NE2	HIS	В	513	14.235	-8.472 12.321	1.00	30,08
		ATOM	3537	C	HIS	В	513	9.895	-5.602 14.958	1.00	15.35
		ATOM	3538	Ō	HIS	В	513	8.846	-6.192 14.704	1.00	14.83
		ATOM	3539	N	ILE	В	514	10.012	-4.744 15.942	1.00	13.35
	20					В	514	8.865	-4.417 16.776	1.00	15.48
	20	ATOM	3540	CA	ILE						
		MOTA	3541	CB	ILE	В	514	9.295	-3.534 17.967	1.00	20.02
		MOTA	3542	CG2	ILE	В	514	8.067	-2.918 18.650	1.00	12.84
		MOTA	3543	CG1	ILE	В	514	10.093	-4.397 18.962	1.00	22.87
		ATOM	3544	CD1	ILE	В	514	10.691	-3.641 20.115	1.00	29.62
	25	ATOM	3545	Ç	ΙĻΕ	В	514	7.797	-3.717 15.923	1.00	15.16
Ö		ATOM	3546	0	ILE	В	514	6.606	-3.972 16.078	1.00	16.61
iù		ATOM	3547	N	ARG	В	515	8.224	-2.823 15.030	1.00	16.33
		ATOM	3548	CA	ARG	В	515	7,280	-2.138 14.150	1.00	17.54
Ü		ATOM	3549	CB	ARG	В	515	8.010	-1.173 13.214	1.00	20.15
<u> </u>	30	ATOM	3550	CG	ARG	В	515	7.080	-0.454 12.234	1.00	21.47
N	30							6.407	0.749 12.891	1.00	26.05
4		ATOM	3551	CD	ARG	В	515				
100		ATOM	3552	NE	ARG	В	515	7.220	1.948 12.716	1.00	24.91
11.		MOTA	3553	CZ	ARG	В	515	6.734	3.175 12.547	1.00	24.61
		ATOM	3554	NH1	ARG	В	515	5.424	3.393 12.522	1.00	22.46
Į.J	35	ATOM	3555	NH2	ARG	В	515	7.569	4.182 12.374	1.00	23.15
ليا		ATOM	3556	C	ARG	В	515	6.545	-3.182 13.304	1.00	16.60
		ATOM	3557	0	ARG	В	515	5.332	-3.093 13.087	1.00	14.51
قعه! چين		ATOM	3558	N	HIS	В	516	7.298	-4.171 12.827	1.00	18.50
Ü		ATOM	3559	CA	HIS	В	516	6.743	-5.237 11.997	1,00	17.26
įΩ	40	ATOM	3560	СВ	HIS	В	516	7.861	-6.176 11.533	1.00	18.14
	•	ATOM	3561	CG	HIS	В	516	7.405	-7.223 10.568	1.00	24.87
		ATOM	3562	CD2	HIS	В	516	7.060	-8.521 10.754	1.00	26.64
		ATOM	3563	ND1	HIS	В	516	7.258	-6.978 9.220	1.00	21.82
											28.42
	4.5	ATOM	3564	CE1	HIS	B	516	6.839	-8.078 8.619	1.00	
	45	ATOM	3565	NE2	HIS	В	516	6.711	-9.028 9.526	1.00	24.47
		ATOM	3566	C	HIS	В	516	5.685	-6.028 12.759	1.00	16.87
		MOTA	3567	0	HIS	B	516	4.596	-6.303 12.240	1.00	14.81
		ATOM	3568	N	MET	В	517	5.999	-6.396 13.997	1.00	16.48
		ATOM	3569	CA	MET	В	517	5.049	-7,162 14.801	1.00	15.39
	50	ATOM	3570	CB	MET	В	517	5.701	-7.587 16.114	1.00	21.05
		ATOM	3571	CG	MET	В	517	6.790	-8.638 15.917	1.00	20.76
		ATOM	3572	SD	MET	В	517	7.380	-9.320 17.470	1.00	23.96
		ATOM	3573	CE	MET	В	517	8.104	-7.879 18.226	1.00	20.45
		ATOM	3574	C	MET	В	517	3.789	-6.368 15.080	1.00	16.23
	55										
	JJ	ATOM	3575	0	MET	В	517	2.688	-6.924 15.148	1.00	16.02
		ATOM	3576	N	SER	В	518	3.954	-5.060 15.247	1.00	13.32
		ATOM	3577	CA	SER	В	518	2.827	-4.186 15.505	1.00	16.34
		ATOM	3578	CB	SER	В	518	3.316	-2.765 15.835	1.00	17.48
		ATOM	3579	OG	SER	В	518	2.234	-1.840 15.843	1.00	17.46
	60	ATOM	3580	C	SER	В	518	1.906	-4.147 14.284	1.00	14.73
		ATOM	3581	0	SER	В	518	0.688	-4.247 14.417	1.00	19.16
		ATOM	3582	N	ASN	В	519	2.474	-4.006 13.091	1.00	14.52
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	5	MOTA	3583	CA	ASN	В	519	1.622	-3.953	11.907	1,00	15.35
		ATOM	3584	CB	ASN	В	519	2.432	-3.509	10.698	1.00	19.21
		ATOM	3585	CG	ASN	В	519	2.700	-2.029	10.729	1.00	20.58
		ATOM	3586	OD1	ASN	В	519	1.839	-1.258	11.150	1.00	26.36
		ATOM	3587	ND2	ASN	В	519	3.891		10.307	1.00	19.62
	10	ATOM	3588	C	ASN	В	519	0.911		11.658	1.00	16.74
	10	ATOM	3589	0	ASN	В	519	-0.265		11.297	1.00	20.58
	,							•				
		ATOM	3590	N	LYS	В	520	1.608		11.885	1.00	18.60
		ATOM	3591	CA	LYS	B	520	0.992		11.717	1.00	20.04
		MOTA	3592	CB	LYS	В	520	2.038		11.872	1.00	25.44
	15	MOTA	3593	CG	LYS	В	520	3.037		10.728	1.00	31.68
		MOTA	3594	CD	LYS	B	520	2.507	-9.663	9.558	1.00	42.56
		MOTA	3595	CE	LYS	В	520	2.186	-8.778	8.364	1.00	45.61
		ATOM	3596	NZ	LYS	В	520	1.435	-9.526	7.312	1.00	46.00
		MOTA	3597	С	LYS	В	520	-0.099	-7.868	12,769	1.00	18.88
	20	MOTA	3598	0	LYS	В	520	-1.183	-8.358	12.478	1.00	21.75
		MOTA	3599	N	GLY	В	521	0.191		13,998	1.00	17.83
		ATOM	3600	CA	GLY	В	521	-0.792		15.058	1.00	16.19
		ATOM	3601	C	GLY	В	521	-2.000		14.833	1.00	16.59
		ATOM	3602	ō	GLY	В	521	-3.128		15.125	1.00	16.57
	25	ATOM	3603	Ŋ	MET	В	522	-1.766	-5.467		1.00	17.48
	43	ATOM	3604	CA	MET	В	522 522	-2.852		14.042	1.00	18.25
Ü												
IU		MOTA	3605	CB	MET	В	522	-2.276	-3.212		1.00	21.27
Œ		ATOM	3606	CG	MET	В	522	-3.190		13.707	1.00	26.97
jak.	• •	ATOM	3607	SD	MET	В	522	-3.199		15.417	1.00	30.35
1	30	MOTA	3608	CE	MET	В	522	-1.659		15.475	1.00	29.86
]aL		ATOM	3609	C	MET	В	522	-3.794		12.989	1.00	18.68
أديا		MOTA	3610	0	MET	В	522	-5.022		13.097	1.00	18.80
El .		MOTA	3611	N	GLU	В	523	-3.205	-5.731	11.966	1.00	18.22
		MOTA	3612	CA	GLU	В	523	-3,968	-6.357	10.889	1.00	23.41
	35	ATOM	3613	CB	GLU	В	523	-3.031	-6.946	9.830	1.00	28.74
1,42		ATOM	3614	CG	GLU	В	523	-2.224	-5.935	9.030	1.00	34.42
IJ		ATOM	3615	CD	GLU	В	523	-1.095	-6.597	8.239	1.00	45.58
Ü		ATOM	3616	OE1	GLU	В	523	-0.131	-5.894	7.857	1.00	49.48
٠Ď		ATOM	3617	OE 2	GLU	В	523	-1.169	-7.825	7.999	1.00	45.97
١Û.	40	ATOM	3618	C	GLU	В	523	-4.812		11.465	1.00	23.98
		ATOM	3619	Ō	GLU	В	523	-5.993		11.147	1.00	22.08
		ATOM	3620	N	HIS	В	524	-4.187		12.326	1.00	23.46
		ATOM	3621	CA	HIS	В	524	-4.846			1.00	26.20
		ATOM	3622		HIS		524		-10.245		1.00	27.26
	45			CB		В	524					
	43	ATOM	3623	CG	HIS	В		-4.378			1.00	30.91
		ATOM	3624	CD2	HIS	В	524	-4.308			1.00	30.90
		ATOM	3625	ND1	HIS	В	524		-11.537		1.00	28.87
		ATOM	3626	CE1	HIS	В	524		-12.780		1.00	30.45
		MOTA	3627	NE2	HIS	B	524	-4.989			1.00	29.19
	50	ATOM	3628	C	HIS	В	524	-5.996	-9.025	13.870	1.00	27.69
		ATOM	3629	0	HIS	В	524	-7.061	-9.656	13.860	1.00	25.00
		ATOM	3630	N	LEU	В	525	-5.777	-7.977	14.655	1.00	23.84
		ATOM	3631	CA	LEU	В	525	-6.786	-7.492	15.588	1.00	25.77
		ATOM	3632	СВ	LEU	В	525	-6.217	-6.358	16.444	1.00	22.22
	55	ATOM	3633	CG	LEU	В	525	-7.164	-5.778		1.00	26.81
		ATOM	3634	CD1	LEU	В	525	-7.763	-6.922		1.00	23.32
		ATOM	3635	CD2	LEU	В	525	-6.414	-4.793		1.00	18.95
		ATOM	3636	C	LEU	В	525 525	-8.013	-6.995		1.00	26.84
		ATOM	3637	0	LEU	В	525 525	-9.154	-7.247		1.00	26.73
	60	ATOM			TYR		525 526	-7.764	-6.271		1.00	26.73
	00			N		В						
		ATOM	3639		TYR	В	526	-8.819	-5.726		1.00	30.89
		ATOM	3640	CB	TYR	В	526	-8.201	-4.818	11.854	1.00	34.31
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	5	ATOM	3641	CG	TYR	В	526	-9.183	-4.223	10.878	1.00	43.50
		ATOM	3642	CD1	TYR	В	526	-10.058	-3.211	11.267	1.00	47.66
		ATOM	3643	CE1	TYR	В	526	-10.943		10.357	1.00	48.85
		ATOM	3644	CD2	TYR	B	526	-9.218	-4.651		1,00	48.52
		ATOM	3645	CE2	TYR	В	526	-10.098	-4.083	8.634	1.00	52.43
	10							-10.095				51.67
	10	ATOM	3646	CZ	TYR	В	526		-3.077		1.00	
		ATOM	3647	ОН	TYR	B	526	-11.810	-2.504		1.00	57.01
		MOTA	3648	C	TYR	В	526	-9.577		12.265	1.00	30.90
		MOTA	3649	0	TYR	B	526	-10.793		12.113	1.00	31.48
		MOTA	3650	N	SER	В	527	-8.849	-7.926	11.889	1.00	31.39
	15	ATOM	3651	CA	SER	В	527	-9.460	-9.095	11.266	1.00	33.73
		MOTA	3652	CB	SER	В	527	-8.377	-10,048	10.749	1.00	34.13
		ATOM	3653	OG	SER	В	527		-11.222		1.00	43.67
		ATOM	3654	c	SER	В	527	-10.339		12.288	1.00	34.34
		ATOM	3655	Ö	SER	В	527		-10.261		1.00	33,42
	20	ATOM										
	20		3656	N	MET	В	528	-9.840		13.517	1.00	31.66
		MOTA	3657	CA	MET	В	528		-10.572		1.00	29.77
		ATOM	3658	CB	MET	В	528	-9.682			1.00	32.96
		MOTA	3659	CG	MET	B .	528	-8.651			1.00	33,47
		ATOM	3660	ŞD	MET	В	528	-9.359	-13.427	15.134	1.00	38.28
	25	ATOM	3661	CE	MET	В	528	-10.265	-13.915	16.579	1.00	36.01
Ö		ATOM	3662	С	MET	В	528	-11.800	-9.747	14.953	1.00	29.42
ľŪ		ATOM	3663	0	MET	В	528	-12.835	-10.293	15.331	1.00	
iθ		ATOM	3664	N	LYS	В	529	-11.673		14.850	1.00	30.64
Œ		ATOM	3665	CA	LYS	В	529	-12.781		15.149	1.00	31.80
<u>ئ</u>	30	ATOM	3666	CB	LYS	В	529	-12.323		15.027	1.00	32.86
7	30											
		ATOM	3667	CG	LYS	В	529	-13.436		15.114	1.00	36.42
14.		ATOM	3668	CD	LYS	В	529	-13.114		14.224	1.00	41.74
#i		ATOM	3669	CE	LYS	В	529	-13.734		14.741	1.00	43.45
		MOTA	3670	NZ	LYS	В	529	-15.221		14.634	1.00	46.51
IJ	35	ATOM	3671	C	LYS	В	529	-13.857	-7.840	14.116	1.00	36.60
Ų		MOTA	3672	0	LYS	В	529	-15.049	-7.877	14.424	1.00	34.04
125 170		ATOM	3673	N	CYS	В	530	-13.407	-8.083	12.889	1.00	40.04
٥		ATOM	3674	CA	CYS	В	530	-14.286	-8.409	11.773	1.00	44.58
Ä		ATOM	3675	CB	·CYS	В	530	-13.460	-8.535	10.491	1.00	50.64
Ü	40	ATOM	3676	SG	CYS	В	530	-13.369	-7.034	9.504	1.00	67.65
	. •	ATOM	3677	C	CYS	В	530	-15.065		12.016	1.00	42.88
	*	ATOM	3678	ō	CYS	В	530	-16.274		11.807	1.00	40.15
		ATOM										
			3679		LYS	В	531		-10.733			41.92
	4.6	ATOM	3680		LYS	В	531		-12.023		1.00	42.60
	45	ATOM	3681		LYS	В	531		-13.091		1.00	44.77
		MOTA	3682	C	LYS	В	531		-11.907		1.00	44.43
		MOTA	3683	0	LYS	В	531	-16.623	-12.804	14.296	1.00	44.09
		ATOM	3684	N	ASN	В	532	-15.678	-10.793	14.685	1.00	44.98
		ATOM	3685	CA	ASN	В	532	-16.437	-10.496	15.893	1.00	44.10
	50	MOTA	3686	CB	ASN	В	532	-17.833	-10.003	15.506	1.00	45.14
		ATOM	3687		ASN	В	532	-18.526			1.00	46.54
		ATOM	3688		ASN	В	532		-9.424		1.00	50.62
		ATOM	3689		ASN	В	532		-8.471		1.00	46.07
		ATOM	3690		ASN	В	532		-11.657		1.00	43.34
	55	ATOM	3691		ASN	В	532 532		-11.657			
	J J										1.00	41.42
		ATOM	3692		VAL	В	533		-12.264		1.00	
		ATOM	3693		VAL	В	533		-13.371		1.00	44.06
		ATOM	3694		VAL	В	533		-14.219		1.00	45.56
		MOTA	3695		VAL	В	533		-14.263		1.00	45.67
	60	ATOM	3696	CG2	VAL	В	533	-13.107	-13.644	19.045	1.00	44.16
		ATOM	3697	С	VAL	В	533	-15.670	-12.835	19.611	1.00	43.24
		ATOM	3698	0	VAL	В	533	-15.894	-13.602	20.548	1.00	44.21

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	5	MOŢA	3757	N	LEU	В	541	-10.559	0.206 20.726	1.00	22.40
		atom	3758	CA	LEU	В	541	-11.164	0.419 19.413	1.00	23.27
		ATOM	3759	CB	LEU	В	541	-12.686	0.429 19.527	1.00	25.12
		ATOM	3760	CG	LEU	В	541	-13.410	-0.808 18.999	1.00	36.53
		ATOM	3761	CD1	LEU	В	541	-14.910	-0.671 19,273	1.00	30.98
	10	MOTA	3762	CD2	LEU	В	541	-13.136	-0.971 17.508	1.00	31.93
		ATOM	3763	Ç	LEU	В	541	-10.697	1.751 18.842	1.00	22.46
		ATOM	3764	ő	LEU	В	541	-10.359	1.845 17.666	1.00	26.29
		ATOM	3765	N	GLU	B	542	-10.694	2.781 19.680	1.00	23.96
		ATOM	3766	CA	GLU	В	542	-10.248	4.106 19.270	1.00	26.91
	15	ATOM							5.050 20.468		
	13		3767	CB	GLU	B	542	-10.250	· · · · · · · · · · · · · · · · · · ·	1.00	30.84
		ATOM	3768	CG	GLU	В	542	-11.166	6.245 20.347	1.00	37.20
		ATOM	3769	CD	GLU	В	542	-11.138	7.105 21.597	1.00	39.98
		MOTA	3770	OE1	GLU	В	542	-12.223	7.385 22.144	1.00	39.92
		MOTA	3771	OE2	GLU	В	542	-10.028	7.494 22.034	1.00	38.96
	20	MOTA	3772	C	GLU	B	542	-8.826	4.010 18.724	1.00	27.90
		MOTA	3773	0	GLU	В	542	-8.530	4.492 17.634	1.00	29.32
		ATOM	3774	N	MET	В	543	-7.945	3.388 19.499	1.00	26.41
		MOTA	3775	CA	MET	B	543	-6.552	3.237 19.107	1.00	23.53
		MOTA	3776	CB	MET	В	543	-5.749	2.591 20.247	1.00	24.60
100	25	ATOM	3777	CG	MET	В	543	-5.812	3.338 21.579	1.00	26.46
Ü		ATOM	3778	SD	MET	В	543	-5,373	5.084 21.467	1.00	29.45
40		ATOM	3779	CE	MET	В	543	-3.585	4.971 21.349	1.00	25.43
Ū		ATOM	3780	C	MET	В	543	-6.403	2.407 17.832	1.00	25.80
(7)	•	ATOM	3781	Ö	MET	В	543	-5.535	2.686 17.004	1.00	23.59
' -J	30	ATOM	3782	N	LEU	В	544	-7.254	1.394 17.673	1.00	27.74
1	50	ATOM	3783	CA ·	LEU	В	544	-7.202	0.522 16.499	1.00	26.32
ind.		ATOM	3784	CB	LEU	В	544	-8.069	-0.721 16.719	1.00	26.75
1											
Ei		ATOM	3785	CG	LEU	В	544	-8.274	-1.632 15.502	1.00	28.12
100	9.6	ATOM	3786	CD1	LEU	В	544	-6.956	-2.294 15.136	1.00	26.36
Ū	35	MOTA	3787	CD2	LEU	В	544	-9.330	-2.680 15.803	1.00	27.00
لدا		ATOM	3788	C	LEU	В	544	-7.672	1.252 15.250	1.00	26.97
175		MOTA	3789	0	LEU	В	544	-7.036	1.181 14.195	1.00	24.25
		ATOM	3790	N	ASP	В	545	-8.787	1.961 15.372	1.00	30.37
u Ü		ATOM	3791	CA	ASP	В	545	-9.338	2.702 14.244	1.00	32.34
نے،	40	ATOM	3792	CB	ASP	В	545	-10.668	3.346 14.637	1.00	36.61
		MOTA	3793	CG	ASP	В	545	-11.818	2.370 14.565	1.00	42.73
		MOTA	3794	OD1	ASP	В	545	-12.858	2.624 15.211	1.00	47,39
		MOTA	3795	OD2	ASP	В	545	-11.676	1.342 13.863	1.00	46.96
		MOTA	3796	C	ASP	В	545	-8.382	3.762 13.711	1,00	31.27
	45	ATOM	3797	0	ASP	В	545	-8.443	4.120 12.532	1.00	30.53
		ATOM	3798	N	ALA	В	546	-7.506	4.272 14.572	1.00	29.02
		ATOM	3799	CA	ALA	В	546	-6.543	5.280 14.141	1.00	31.21
		ATOM	3800		ALA	В	546	-5.646	5.693 15.306	1.00	30.98
		ATOM	3801	C	ALA	В	546	-5.697	4,731 12.996	1.00	32.14
	50	ATOM	3802		ALA	В	546	-5.189	5.490 12.170	1.00	33.78
	50	ATOM	3803	Ŋ	HIS	В	547	-5.555	3.410 12.943	1.00	32.27
		ATOM	3804		HIS	В	547	-4.773	2.767 11.892	1.00	37.73
		ATOM	3805	CB	HIS	В	547	-3.991	1.576 12.457	1.00	35.83
	55	MOTA	3806	CG	HIS	В	547	-2.796	1.968 13.269	1.00	34.54
	22	ATOM	3807	CD2	HIS	B	547	-2.698	2.553 14.486	1.00	30.23
		ATOM	3808	ND1	HIS	В	547	-1.502	1.755 12.840	1.00	34.23
		MOTA	3809	CE1	HIS	В	547	-0.659	2.193 13.760	1.00	36.72
		ATOM	3810	NE2	HIS	B	547	-1.360	2.681 14.768	1.00	31.48
		ATOM	3811		HIS	В	547	-5.649	2.286 10.735	1.00	
	60	ATOM	3812	0	HIS	В	547	-5.178	2.152 9.606	1.00	46.04
		ATOM	3813		ARG	В	548	-6.919	2.020 11.019	1.00	48.35
		ATOM	3814	CA	ARG	В	548	-7.843	1.551 9.993	1.00	54.74
								016			

	5	MOŢA	3815	CB	ARG	B	548	-8.522		10.452	1.00	54.66
		atom	3816	C	ARG	B	548	-8.886	2.619	9,681	1.00	59.94
		ATOM	3817	0	ARG	B	548	-8.580	3.812	9.672	1.00	62.81
		ATOM	3818	N	LEU	B	549	-10.116	2.186	9.422	1.00	64,81
		MOTA	. 3819	CA	LEU	В	549	-11.204	3.109	9.112	1.00	67.59
	10	ATOM	3820	CB	LEU	В	549	-12.478	2.327	8.799	1.00	68.06
		ATOM	3821	C	LEU	В	549	-11.449		10.275	1.00	69.12
		ATOM	3822	ŏ	LEU	В	549	-11.451		10.036	1.00	68.96
		ATOM	3823	OXT	LEU	В	549	-11.634		11.412	1.00	70.70
		HETATM	3824	CP9	DES	В	600	-4.547	-6.077		1.00	18.55
	15	HETATM	3825	CP8	DES	В	600	-3.163	-6.365		1.00	17.72
	13	HETATM				B	600	-2.897	-7.853		1.00	21.17
		-	3826	CP7	DES	_				•		
		HETATM	3827	CP6	DES	В	600	-3.719	-8.551		1.00	22.05
		HETATM	3828	CP1	DES	B	600	-3.405	-8.481		1.00	21.32
	• •	HETATM	3829	CP2	DES	B	600	-4.239	-9.095		1.00	21.61
	20	HETATM	3830	CP3	DES	B	600	-5.388	-9.771		1.00	24,89
		HETATM	3831	OP3	DES	В	600		-10.339		1.00	24.94
		HETATM	3832	CP4	DES	В	600	-5.718	-9.858		1.00	24.08
		HETATM	3833	CP5	DES	В	600	-4.877	-9.240	20.791	1.00	24.67
		HETATM	3834	C7	DES	В	600	-1.998	-8.460	22.190	1.00	16.67
1100	25	HETATM	3835	C6	DES	В	600	-1.330	-7.834	23.325	1.00	15.39
j		HETATM	3836	C5	DES	В	600	-2.054	-7.642	24.522	1.00	17.62
D		HETATM	3837	C4	DES	В	600	-1.433	-7.072	25.634	1.00	16.16
IU		HETATM	3838	C3	DES	В	600	-0.077	-6.685	25.542	1.00	20.04
Ũ		HETATM	3839	03	DES	В	600	0.509	-6.113		1.00	15.55
į <u></u>	30	HETATM	3840	C2	DES	В	600	0.669	-6.866		1.00	18.94
, A	50	нетатм	3841	C1	DES	В	600	0.035	-7.440		1.00	15.20
<u> </u>		HETATM	3842	CB	DES	В	600	-1.642	-9.903		1.00	17,61
, 2		HETATM	3843	C9	DES	В	600	-0.440			1.00	11.63
81		HETATM	3844	C1	CBM	В	417	-4.997	-22.994		1.00	55.80
	35	HETATM	3845	04	CBM	В	417	-4.789	-24.187		1.00	55.56
ليا	J J						417		-24.167		1.00	56.04
Ų		HETATM	3846	03	CBM,	В		-4.798				
D		HETATM	3847	CS	CBM	В	417	-5.468	-21.960		1.00	57.04
Ö		HETATM	3848	C1	CBM	В	530	-15.278	-5.124		1.00	87.39
Ď	40	HETATM	3849	04	CBM	В	530	-15.852	-5.086	9.064	1.00	87.68
1	40	HETATM	3850	03	CBM	В	530	-15.832	-4.291	•	1.00	86.22
		HETATM	3851	C2	CBM	В	530	-14.207	-5.886		1.00	87.65
		ATOM	3852	CB	HIS	C	687		-20.030		1.00	63,34
		ATOM	3853	C	HIS	C	687		-20.267		1.00	63.49
		ATOM	3854	0	HIS	C	687		-20.840		1.60	63.87
	45	ATOM	3855	N	HIS	C	687	7.944	-19.563	-3.758	1.00	65.42
		ATOM	3856	CA	HIS	C	687	9.424	-19.484	-3.586	1,00	64.86
		ATOM	3857	N	LYS	C	688	9.533	-20.281	-5.875	1.00	62.00
		ATOM	3858	CA	LYS	C	688	10.101	-20.999	-7.009	1.00	60.81
		ATOM	3859	CB	LYS	C	688	8.980	-21.540	-7.901	1.00	61.76
	50	MOTA	3860	С	LYS	C	688		-20.127		1.00	57.47
		ATOM	3861	0	LYS	Ċ	688		-20.379		1.00	57.64
		ATOM	3862	N	ILE	Ċ	689		-19.103			55.74
		ATOM	3863	CA	ILE	c	689		-18.212		1.00	53.09
		ATOM	3864	CB	ILE	c	689		-17.057		1.00	53.83
	55	ATOM	3865	CG2	ILE	C	689		-16.286-		1.00	54.55
		MOTA	3866	CG1	ILE	C	689		-17.603-		1.00	52.90
		ATOM ·	3867	CD1	ILE	C	689		-16.550-		1.00	50.45
		ATOM	3868	C	ILE	C	689		-17.611	•	1.00	50.82
	60	ATOM	3869	0	ILE	C	689		-17.550		1.00	51.28
	60	ATOM	3870	N	LEU	C	690		-17.162		1.00	48.01
		MOTA	3871	CA	LEU	C	690		-16.570		1.00	47.33
		ATOM	3872	CB	LEU	C	690	12.812	-16.058	-5.199	1,.00	42.51

	5	ATOM	3873	CG	LEU	C	690	13.835 -15.501 -4.206 1.00 40.67
		ATOM	3874	CD1	LEU	C	690	14.575 -14.324 -4.831 1.00 39.95
		ATOM	3875	CD2	LEU	C	690	13.128 -15.078 -2.926 1.00 38.77
		ATOM	3876	C	LEU	Ċ	690	14.445 -17.615 -6.282 1.00 48.87
		ATOM	3877	0	LEU	C	690	15.643 -17.340 -6.393 1.00 46.71
	10							,
	10	MOTA	3878	N	HIS	C	691	14.001 -18.818 -5.939 1.00 51.36
		ATOM	3879	ÇA	HIS	C	691	14.886 -19.946 -5.675 1.00 53.35
		atom	3880	CB	HIS	C	691	14.042 -21.203 -5.460 1.00 58.64
		ATOM	3881	CG	HIS	C	691	14.655 -22.195 -4.526 1.00 62.94
		MOTA	3882	CD2	HIS	C	691	15.503 -23.227 -4.751 1.00 64.95
	15	ATOM	3883	ND1	HIS	C	691	14.392 -22.202 -3.173 1.00 65.49
		ATOM	3884	CE1	HIS	C	691	15.053 -23.195 -2.605 1.00 68.18
		ATOM	3885	NE2	HIS	C	691	15,733 -23.833 -3.540 1.00 68.77
		ATOM	3886	C	HIS	C	691	15.824 -20.162 -6.861 1.00 52.19
		ATOM	3887	ō	HIS	c	691	17.048 -20.153 -6.717 1.00 47.53
	20	MOTA	3888	N	ARG	C	692	15.222 -20.350 -8.032 1.00 52.37
	20				ARG	C	692	
		ATOM	3889	CA				
		ATOM	3890	CB	ARG	C	692	14.955 -20.832-10.410 1.00 54.04
		MOTA	3891	CG	ARG	C	692	15.575 -20.826-11.797 1.00 57.52
		ATOM	3892	CD	ARG	C	692	14.528 -21.048-12.874 1.00 58.25
; czs,	25	ATOM	3893	NE	ARG	C	692	14.375 -19.878-13.732 1.00 61.43
		ATOM	3894	CZ	ARG	С	692	13.218 -19.260-13.951 1.00 64.32
Ö		ATOM	3895	NHl	ARG	C	692	12.108 -19.706-13.378 1.00 63.22
ľV		ATOM	3896	NH2	ARG	C	692	13.171 -18.197-14.746 1.00 65.93
įΏ		ATOM	3897	C	ARG	C	692	16.873 -19.434 -9.639 1.00 53.09
	30	ATOM	3898	0	ARG	С	692	18.047 -19.644 -9.956 1.00 53.06
'~J		ATOM	3899	N	LEU	C	693	16.338 -18.217 -9.607 1.00 50.73
4		ATOM	3900	CA	LEU	č	693	17.125 -17.039 -9.945 1.00 49.53
١٠٠٠		ATOM	3901	CB	LEU	Ċ	693	16.249 -15.784 -9.881 1.00 49.56
Ħ		ATOM	3902	ÇG	LEU	C	693	15.781 -15.245-11.239 1.00 49.78
	35							
لدا	33	ATOM	3903	CD1	LEU	C	693	15.219 -16.389-12.079 1.00 50.30
لَيْا		ATOM	3904	CD2	LEU	C	693	14.728 -14.170-11.037 1.00 48.79
Ü		MOTA	3905	C	LEU	C	693	18.318 -16.904 -9.006 1.00 48.38
ارست: اشن		ATOM	3906	0	LEU	C	693	19.382 -16.426 -9.402 1.00 46.35
٥	4.0	ATOM	3907	N	LEU	C	694	18.135 -17.329 -7.761 1.00 46.74
۱.	40	ATOM	3908	CA	LEU	C	694	19.204 -17.272 -6.775 1.00 49.41
		MOTA	3909	CB	LEU	C	694	18.634 -17.415 -5.362 1.00 45.20
		MOTA	3910	CG	LEU	C	694	18.222 -16.128 -4.643 1.00 40.19
		ATOM	3911	CD1	LEU	C	694	17.456 -16.474 -3.371 1.00 41.65
		ATOM	3912	CD2	LEU	C	694	19.453 -15.307 -4.317 1.00 35.91
	45	ATOM	3913	C	LEU	C	694	20.172 -18.417 -7.058 1.00 54.15
		ATOM	3914	0	LEU	С	694	21.370 -18.320 -6.776 1.00 53.55
		ATOM	3915	N	GLN	C	695	19.634 -19.498 -7.619 1.00 57.44
		ATOM	3916	CA	GLN	Ċ	695	20.416 -20.685 -7.959 1.00 62.46
		MOTA	3917	CB	GLN	c	695	19.477 -21.853 -8.304 1.00 61.95
	50					c		
	50	ATOM	3918	CG	GLN		695	
		ATOM	3919	CD	GLN	C	695	18.454 -24.053 -7.490 1.00 62.78
		ATOM	3920	OE1	GLN	C	695	18.262 -24.928 -6.653 1.00 63.33
		MOTA	3921	NE2	GLN	C	695	17.720 -23.969 -8.608 1.00 60.37
		MOTA	3922	C	GLN	C	695	21.330 -20.414 -9.149 1.00 65.13
	55	ATOM	3923	0	GLN	C	695	22.517 -20.740 -9.116 1.00 65.87
		ATOM	3924	N	ASP	C	696	20.761 -19.824-10.197 1.00 67.67
		ATOM	3925	CA	ASP	C	696	21.492 -19.500-11.420 1.00 70.66
		MOTA	3926	СВ	ASP	C	696	20.801 -18.348-12.151 1.00 71.06
		MOTA	3927	CG	ASP	С	696	20.127 -18.792-13.430 1.00 71.70
	60	ATOM	3928	OD1	ASP	Ċ	696	20.637 -18.455-14.521 1.00 72.47
		ATOM	3929	OD2	ASP	Ċ	696	19.086 -19.478-13.342 1.00 71.41
		ATOM	3930	C	ASP	c	696	22.951 -19.132-11.169 1.00 72.41
				_		_	555	

	_										
	5	MOTA	3931	0	ASP	С	696	23.245		1.00	72.56
		ATOM	3932	N	SER	Ç	697	23.859		1.00	74.67
		MOTA	3933	CA	SER	C	697	25.291	-19.741-11.507	1.00	76.45
		ATOM	3934	CB	SER	C.	697	26.019	-21.076-11.377	1.00	76.00
		ATOM	3935	C	SER	C	697	25.841	-18.960-12.696	1.00	78.44
	10	MOTA	3936	0	SER	C	697	26.286	-17.809-12.489	1.00	79.20
		ATOM	3937	OXT	SER	C	697	25.818	-19.510-13.820	1.00	80.07
		ATOM	3938	CB	LYS	D	686	-14.070	13.661 16.843	1.00	50.28
		ATOM	3939	С	LYS	D	686	-13.682	14.418 19.199	1.00	51.59
		ATOM	3940	0	LYS	D	686	-12.629	14.738 19.759	1.00	50.42
	15	ATOM	3941	N	LYS	D	686	-12.910	15.796 17.283	1.00	50.43
	* ~	ATOM	3942	CA	LYS	D	686	-13.976	14.872 17.769	1.00	50.62
		ATOM	3943	N	HIS	Ď	687	-14.617	13.676 19.787	1.00	49.91
		ATOM	3944	CA	HIS	D	687	-14.447	13.176 21.144	1.00	51.28
		MOTA	3945	CB	HIS	D	687	-15.806	12.984 21.828	1.00	54.12
	20					D	687			1.00	60.06
	20	ATOM	3946	CG	HIS			-15.713	12.336 23.177		
		ATOM	3947	CD2	HIS	D	687	-15.418	11.064 23.539	1.00	61.05
		MOTA	3948	ND1	HIS	D	687	-15.911	13.030 24.352	1.00	62.39
		ATOM	3949	CE1	HIS	D	687	-15.741	12.215 25.378	1.00	62.76
	0.5	ATOM	3950	NE2	HIS	D	687	-15.441	11.016 24.912	1.00	63.46
	25	ATOM	3951	C	HIS	D	687	-13.691	11.849 21.163	1.00	49.55
ū		ATOM	3952	0	HIS	D	687	-14.099	10.878 20.524	1.00	50.84
ijŨ		MOTA	3953	N	LYS	D	688	-12.593	11.816 21.909	1.00	44.00
		MOTA	3954	CA	LYS	D	688	-11.784	10.611 22.038	1.00	40.31
D		MOTA	3955	CB	LYS	D	688	-10.446	10.773 21.299	1.00	41.42
4	30	ATOM	3956	CG	LYS	D	688	-10.513	10.595 19.780	1.00	42.76
d		MOTA	3957	CD	LYŚ	D	688	-9.123	10.716 19.152	1.00	38.66
-		ATOM	3958	CE	LYS	D	688	-9.162	10.529 17,640	1.00	38.28
'~		MOTA	3959	NZ	LYS	D	688	-7.894	10.970 16.986	1.00	31.58
E:		ATOM	3960	С	LYS	D	688	-11.506	10.378 23.517	1.00	36.70
	35	MOTA	3961	0	LYS	D	688	-11.271	11.326 24.266	1.00	33.38
IJ		ATOM	3962	N	ILE	D	689	-11.549	9.122 23.942	1.00	33.06
i.J		ATOM	3963	CA	ILE	D	689	-11.255	8.806 25.328	1.00	28.70
		ATOM	3964	СВ	ILE	D	689	-11.438	7.301 25.607	1.00	30.88
ιŪ		ATOM	3965	CG2	ILE	D	689	-10.725	6.912 26.899	1.00	31.45
ıΩ	40	ATOM	3966	CG1	ILE	D	689	-12.927	6.971 25.721	1.00	32.57
		ATOM	3967	CD1	ILE	D	689	-13.308	5.679 25.031	1.00	29.79
		ATOM	3968	C	ILE	D	689	-9.790	9.193 25.541	1.00	27.64
		ATOM	3969	ō	ILE	Ď	689	-9.405	9.649 26.611	1.00	25.54
		ATOM	3970	N	LEU	D	690	-8.985	9.021 24.496	1.00	24.25
	45	ATOM	3971	CA	LEU	_	690	-7.563	9.348 24.549	1.00	26.63
	73	ATOM	3972	CB	LEU	D	690	-6.903	9.021 23.200	1.00	22.83
						D					
		ATOM	3973	CG	LEU	D	690	-5.433	9.387 22.992	1.00	25.47
		ATOM	3974	CD1	LEU	D	690	-4.595	8.772 24.108	1.00	24.03
	60	ATOM	3975	CD2	LEU	D	690	-4.956	8.898 21.616	1.00	20.87
	50	ATOM	3976	C	LEU	D	690	-7.344	10.823 24.902	1.00	26.64
		MOTA	3977	0	LEU	D	690	-6.408	11.165 25.625	1.00	28.34
		ATOM	3978	N	HIS	D	691	-8.206	11.694 24.383	1.00	27.77
		MOTA	3979	CA	HIS	D	691	-8.107	13.125 24.665	1.00	29.16
		ATOM	3980	CB	HIS	D	691	-9.156	13.907 23.861	1.00	30.89
	55	ATOM	3981	CG	HIS	D	691	-8.903	13.935 22.386	1.00	37.09
		ATOM	3982	CD2	HIS	D	691	-7.750	14.000 21.679	1.00	41.39
		ATOM	3983	ND1	HIS	D	691	-9.920	13.906 21.458	1.00	41.65
		ATOM	3984	CE1	HIS	D	691	-9.407	13.953 20.242	1.00	44.64
		ATOM	3985	NE2	HIS	D	691	-8.091	14.010 20.347	1.00	41.94
	60	ATOM	3986	С	HIS	D	691	-8.338		1.00	26.65
		ATOM		0	HIS	Ď	691	-7.602		1.00	24.50
		ATOM	3988	-	ARG	D	692	-9.371	12.742 26.703	1.00	25.70
								010			

	5	ATOM	3989	CA	ARG	D	692	-9.691	12.912 28.114	1.00	29.11
		MOTA	3990	CB	ARG	D	692	-10.959	12.134 28.472	1.00	30.84
		MOTA	3991	CG	ARG	D	692	-11.255	12.129 29.963	1.00	41.63
		ATOM	3992	CD	ARG	D	692	-12.502	11.327 30.290	1.00	48.83
		ATOM	3993	NE	ARG '	D	692	-13.618	12.198 30.647	1.00	54.50
	10	ATOM	3994	CZ	ARG	D	692	-14.498	12.677 29.774	1.00	5.9.37
	- •	MOTA	3995	NH1	ARG	D	692	-14.392	12.371 28.486	1.00	60.97
		ATOM	3996	NH2	ARG	D	692	-15.483	13.464 30.188	1.00	59.07
		MOTA	3997	C	ARG	D	692	-8.548	12.451 29.011	1.00	28.30
		MOTA	3998	Ö	ARG	Ď	692	-8.139	13.167 29.929	1.00	26.50
	15		3999	Ŋ	LEU	D	693	-8.030	11.259 28.737	1.00	24.87
	13	ATOM							10.705 29.536		27.17
		MOTA	4000	CA	LEU	D	693	-6.943		1.00	
		MOTA	4001	CB	LEU	D	693	-6.674	9.254 29.116	1.00	28.45
		MOTA	4002	CG	LEU	D	693	-7.844	8.300 29.391	1.00	30.40
		MOTA	4003	CD1	LEU	D	693	-7.575	6.932 28.778	1.00	34.79
	20	MOTA	4004	CD2	LEU	D	693	-8.043	8.171 30.894	1.00	32.02
		MOTA	4005	C	LEU	D	693	-5.670	11.539 29.440	1.00	25.96
		ATOM	4006	0	LEU	D	693	-4.948	11.700 30.428	1.00	27.01
		MOTA	4007	N	LEU	D	694	-5.395	12.080 28.257	1.00	25.33
		MOTA	4008	CA	LEU	D	694	-4.207	12.906 28.062	1.00	27.22
	25	MOTA	4009	CB	LEU	D	694	-3.948	13.126 26.572	1.00	24.61
		MOTA	4010	CG	LEU	D	694	-3.118	12.080 25.825	1.00	22.20
ŧΩ		ATOM	4011	CD1	LEU	D	694	-3.230	12.332 24.324	1.00	21.13
ľŲ		ATOM	4012	CD2	LEU	D	694	-1.666	12.148 26.275	1.00	21.34
Ü		ATOM	4013	C	LEU	D	694	-4.336	14.270 28.742	1.00	32.40
- -	30	ATOM	4014	Ö	LEU	D	694	-3.339	14.889 29.102	1.00	31.55
110		ATOM	4015	N	GLN	D	695	-5.570	14.733 28.915	1.00	36.93
į		ATOM	4016	CA	GLN	D	695	-5.820	16.032 29.528	1.00	43.18
إيه		MOTA	4017	CB	GLN	D	695	-7.022	16.694 28.862	1.00	40.48
ēi		ATOM	4018	CG	GLN	D	695	-6.772	17.071 27.422	1.00	37.99
	35		4019	CD	GLN	D	695	-7.943	17.764 26.795	1.00	35.86
Ų	33	MOTA					695	-7.943 -7.863	18.895 26.342	1.00	38.84
IJ		ATOM	4020	OE1	GLN	D					
		ATOM	4021	NE2	GLN	D	695	-9.082	17.060 26.757	1.00	31.62
		ATOM	4022	C	GLN	D	695	-6.049	16.009 31.034	1.00	48.74
Û	40	ATOM	4023	0	GLN	D	695	-6.119	17.065 31.660	1.00	51.25
ıĐ	40	ATOM	4024	Ŋ	ASP	D	696	-6.175	14.818 31.611	1.00	54.01
		MOTA	4025	CA	ASP	D	696	-6.398	14.702 33.047	1.00	62.23
		MOTA	4026	•	ASP	D	696	-6.217	13.238 33.485	1.00	
		ATOM	4027	CG	ASP	D	696	-7.527	12.467 33.475	1.00	67.72
		MOTA	4028	ODi	ASP	D	696	-8.528	12.996 32.941	1.00	68.11
	45	MOTA	4029	OD2	ASP	D	696	-7.552	11.333 34.003	1.00	68.95
		MOTA	4030	C	ASP	D	696	-5.456	15.622 33.840	1.00	65.60
		ATOM	4031	0	ASP	D	696	-4.312	15.189 34.134	1.00	68.33
		MOTA	4032	OXT	ASP	D	696	-5.874	16.755 34.140	1.00	69.20
		HETATM	4033	0	HOH		1	16.153	-0.605 -4.425	1.00	17.11
	50	HETATM	4034	0	нон		2	16.570	-5.304-16.560	1.00	21.44
		HETATM	4035	0	нон		3	18.526	0.742 -4.495	1.00	23.43
		HETATM	4036	0	нон		4	13.647	-2.187 8.588	1.00	25.82
		HETATM	4037	Ö	нон		5	9.778	-5.825 2.509	1.00	20.58
		HETATM	4038	Ö	нон		6	17.072	-3.605 -8.015	1.00	18.38
	55	HETATM	4039	0	нон		7	24.920	-1.689 -2.780	1.00	25.74
							8	7.321		1.00	24.11
		HETATM	4040	0	HOH					1.00	
		HETATM	4041	0	HOH		9	25.976	-3.535 15.158		26.78
		HETATM	4042	0	НОН		10	15.088	-7.006-15.192	1.00	19.64
	60	HETATM	4043	0	нон		11	14.070	0.925 -5.953	1.00	20.55
	60	HETATM	4044	0	нон		12	18.008	3.407 -6.654	1.00	32.30
		HETATM	4045	0	НОН		13	31.949	-8.393 13.487	1.00	30.64
		HETATM	4046	O	нон		14	19.625	-2.804 -4.279	1.00	24.45
								010			

	5	HETATM	4047	0	нон	15	11.741	1.079-21.140	1.00	25.87
		HETATM	4048	o	нон	16	25.067	13.951 14.153	1.00	31.07
		HETATM	4049	0	нон	17	15.501	1.323-10.393	1.00	21.01
		HETATM	4050	0	нон	18	13.880	3.349-11.482	1.00	24.28
		HETATM	4051	O	нон	19	17.591	0.979 -8.828	1.00	35.26
	10	HETATM	4052	ō	нон	20	23.682	-2.041 -0.314	1.00	37.90
		HETATM	4053	o	нон	21	15.754	9.496 11.841	1.00	39.44
				0	нон	22	-4.943	7.574 -3.066	1.00	37.67
		HETATM	4054							
		HETATM	4055	0	нон	23	6.877	0.354-15.982	1.00	36.92
	1.5	HETATM	4056	0	НОН	24	15.806	-4.002 8.671	1.00	30.38
	15	HETATM	4057	0	нон	25	17.185	-3.158 -5.321	1.00	28.89
		HETATM	4058	0	нон	26	17.572	9.249 17.009	1.00	30.15
		HETATM	4059	0	нон	27	24.096	-2.929 11.604	1.00	31.37
		HETATM	4060	0	нон	28	22.324	-5.871-11.980	1.00	32.74
•		HETATM	4061	0	нон	29	27.547	-12.361 -0.801	1.00	36,61
	20	HETATM	4062	0	нон	30	11.173	13.442 -2.719	1.00	35.41
		HETATM	4063	0	нон	31	15.438	-9.527 5.483	1.00	29.88
		HETATM	4064	0	нон	32	9.946	-6.564 5.983	1.00	35.05
	•	HETATM	4065	0	нон	33	7.599	11.680-15.261	1.00	38.68
		HETATM	4066	0	нон	34	20.112	10.503 -5.109	1.00	42.66
, exerc	25	HETATM	4067	0	нон	35	15.972	10.343 14.897	1.00	41.73
		HETATM	4068	0	нон	36	22.401	-5.914 -9.527	1.00	28.08
·O		HETATM	4069	0	нон	37	16.128	-0.899 -8.109	1.00	33.13
IJ		HETATM	4070	0	нон	38		15.655 -3.706	1.00	41.37
(X)		HETATM	4071	Ō	нон	39	31.900	13.545 21.339	1.00	37.79
ļuš.	30	HETATM	4072	ō	нон	40	20.058	-7.530 14.119	1.00	47.51
100	50	HETATM	4073	ō	нон	41	34.634	6.668 15.632	1.00	29.24
<u> </u>		HETATM	4074	o	нон	42	17.968	10.511 -9.085	1.00	44.60
1.4		HETATM	4075	o	нон	43		-17.325 -4.088	1.00	44.10
Bi		HETATM	4076	0	нон	44	4.034	-1.472 27.521	1.00	15.22
	35	HETATM	4077	0	нон	45	-5.943	-0.018 36.088	1.00	21.11
ليرا	33	HETATM	4078	0	нон	46	6.084	-1.509 29.478	1.00	19.51
لرا						47	9.762	1.061 15.621	1.00	27.74
		HETATM	4079	0	нон					
Ō		HETATM	4080	0	нон	48	1.804	0.717 17.260	1.00	20.97
Ō	40	HETATM	4081	0	нон	49	0.929	0.421 30.281	1.00	19.64
100	40	HETATM	4082	0	нон	50	9.627	4.271 31.231	1.00	19.02
		HETATM	4083	0	нон	51	2.121	-0.261 13.654	1,00	26.09
		HETATM	4084	0	НОН	52	20.060	10.275 17.711	1.00	25.49
	;	HETATM		0	нон	53	-6.786	0.736 33.483	1.00	22.34
		HETATM	4086	0	HOH	54	, 2.751	-4.136 27.760	1.00	19.93
	45	HETATM	4087	0	нон	55	5.994	-4.079 31.292	1.00	32.27
		HETATM	4088	0	нон	56	19.416	16.921 21.645	1.00	25.54
		HETATM	4089	0	нон	57	4.833	2.325 29.006	1.00	19.00
		HETATM	4090	0	HOH	58	-7.638	-8.931 37.809	1.00	24.79
		HETATM	4091	0	HOH	59	28.442	-4.673 21.875	1.00	24.32
	50	HETATM	4092	0	HOH	60	1.094	-4.893 32.100	1.00	24.27
		HETATM	4093	0	нон	61	0.905	-7.306 32.783	1.00	21,33
		HETATM	4094	0	нон	62	3.396	-2.971 32.306	1.00	•
		HETATM	4095	0	нон	63	10.363	4.576 28.391	1.00	33.43
		HETATM	4096	0	нон	64	19.551	-6.473 16.597	1.00	35.38
	55	HETATM	4097	ō	нон	65		-19.627 15.665	1.00	27.99
		HETATM	4098	ŏ	нон	66	-7.275	-9.745 31.077	1.00	27.00
		HETATM	4099	o	нон	67	10.189	3.580 16.510	1.00	24.19
		HETATM	4100	0	нон	68	2.741	0.716 28.382	1.00	16.48
		HETATM	4101	0	нон	69	23.522	-4.323 13.943	1.00	27.48
	60	HETATM	4101	0	нон	70	17.133	8.133 19.686	1.00	32.24
		HETATM	4102	0	нон	70	-0.295		1.00	33.42
		HETATM	4104				9.519	10.828 34.842	1.00	29.38
		DEIMIN	4104	9	нон	72	7.319	10.020 34.042	1.00	49.30

	5	VALUE & UNICAN	4105	_	****		c 201	34 050 06 050		
	3	HETATM	4105	0	нон	73	6.291	14.878 29.070	1.00	28.21
		HETATM	4106	0	нон	74	-1.721	6.480 13.381	1.60	49,91
		HETATM	4107	0	нон	75		-15.427 26.194	1.00	24,17
		HETATM	4108	0	нон	76	5.029	7.461 17.718	1.00	18.91
		HETATM	4109	0	HOH	77	3.758	2.086 14.306	1.00	28.28
	10	HETATM	4110	0	HOH	78	-1.390	-18.739 33.103	1.00	41.11
		HETATM	4111	0	HOH	79	12.703	-8.687 32.119	1.00	36.21
		HETATM	4112	0	нон	80	22.270	-6.451 14.844	1.00	33.21
		HETATM	4113	0	нон	81	1.458	4.605 34.026	1.00	23.59
		HETATM	4114	0	нон	82	1.759		1.00	28.78
	15	HETATM	4115	ō	нон	83		-21.372 23.188	1.00	31.14
		HETATM	4116	ō	нон	84	36.525	0.463 20.792	1.00	45.26
		HETATM	4117	Ö	нон	85	13.832	9.696 13.792	1.00	33.12
		HETATM	4118	o	нон	86	31.166	6.635 24.924	1.00	35.12
	20	HETATM	4119	0	нон	87		-10.389 34.180	1.00	48.80
	20	HETATM	4120	0	нон	88	9.581	-6.956 34.136	1.00	42.95
		HETATM	4121	0	нон	89	-1.563	15.887 27.596	1.00	39.35
		HETATM	4122	0	нон	90	-5.286	10.345 32.757	1.00	35.20
		HETATM	4123	0	нон	91	15.035	0.607 13.339	1.00	29.53
		HETATM	4124	0	нон	92	-10.984	-1.500 30.272	1.00	29.84
D	25	HETATM	4125	0	нон	93	-7.239	-0.271 -1.207	1.00	48.98
Ü		HETATM	4126	0	нон	94	18.022	-4.902 34.286	1.00	35.28
ïŪ		HETATM	4127	0	нон	95	29.347	-6.319 19.920	1.00	37.20
: 1		HETATM	4128	0	нон	96	-14,309	-19.369 20.945	1.00	30.23
D		HETATM	4129	0	нон	97	31.496	4.614 18.716	1.00	38.79
	30	HETATM	4130	0	нон	98	26.567	9.759 25.629	1.00	29.72
	-	HETATM	4131	ŏ	НОН	99	2.848	14.531 1.134	1,00	38.08
	•	HETATM	4132	0	нон	100	-9.373	5.699 -7.953	1.00	53.23
'~	•	HETATM	4133	ŏ	нон	101	-10.137	-0.553 -6.742	1.00	47.72
n		HETATM	4134	0	нон	102		-10.363 15.403	1.00	40.97
	35	HETATM	4135	o	нон	103	21.079	17.166 18.929	1.00	32.40
لدآ	33		4136	0		104				
		HETATM			нон		25.810	-5.921 22.506	1.00	37.69
		HETATM	4137	0	нон	105	22.493	-1.311 34.465	1.00	49.94
ū		HETATM	4138	0	нон	106	19.317	10.977 38.703	1.00	40.60
ñ	40	HETATM	4139	0	нон	107	4.479	13.951 3.045	1.00	45.33
·==	40	HETATM	4140	0	нон	108	20.418	19.353 34.044	1.00	42.18
•		HETATM	4141	0	нон	109	-3.065	8.936 14.062	1.00	38.41
		HETATM	4142	0	нон	110	26,856	-4.674-10.940	1.00	55.67
		HETATM	4143	0	нон	111	2.032	-6.387 5.614	1.00	42.23
		HETATM	4144	0	НОН	112	0.601	0.228-17.268	1.00	40.57
	45	HETATM	4145	0	нон	113	4.903	13.488-14.050	1.00	47.72
		HETATM	4146	0	HOH	114	3.986	16.140 -0.960	1.00	40.66
		HETATM	4147	0	нон	115	12.968	-19.561 2.741	1.00	40.76
		HETATM	4148	0	нон	116	7.170	15.583 2,599	1.00	43.69
		HETATM	4149	0	нон	117	-1.966	10.606 3.572	1.00	52.63
	50	HETATM	4150	0	НОН	118	29.030	10.644 6.707	1.00	42.54
	-	HETATM	4151	Ō	нон	119	0.468	4.354 8.374	1.00	38.69
		HETATM	4152	Ö	нон	120	29.086	17.119 19.272	1.00	45.51
		HETATM	4153	Ö	нон	121	24.614	17.609 20.174	1.00	53.55
			4154		нон	122		0.362 26.686		
	55	HETATM	4155	0			-15.318		1.00	36.77
	J J	HETATM		0	нон	123	-3.857	-24.786 28.325	1.00	39.64
		HETATM	4156	0	нон	124	21.728	22.178 31.983	1.00	43.73
		HETATM	4157	0	нон	125	31.650	-7.370 21.642	1.00	40.53
		HETATM	4158	0	нон	126	25.421	10.436 21.161	1.00	32.31
	60	HETATM	4159	0	нон	127	10.317	-9.457 12.998	1.00	37.77
	60	HETATM	4160	0	нон	128	22.723	14.887 15.427	1.00	47.90
		HETATM	4161	0	нон	129	6.702	9.556 37.596	1.00	47.81
		HETATM	4162	0	нон	130	27.987	13.557 7.167	1.00	41.15

5	HETATM	4163	0	нон	131	30.798	16.499 7.588	1.00	58.47
_	HETATM	4164	0	нон	132	10.071	-0.571-20.393	1.00	38.79
	HETATM	4165	0	НОН	133	9.562	8.334-21.392	1.00	36.80
	HETATM	4166	0	нон	134	6.712	6.058 8.822	1.00	37.43
•	HETATM	4167	0	нон	135	5.927	8.454 10.594	1.00	42.34
10	HETATM	4168	0	нон	136	4.472	6.306 10.973	1.00	37.35
	HETATM	4169	0	нон	137	6.792	7.721 7.051	1.00	47.23
	HETATM	4170	0	нон	138	24.513	11.582 33.724	1.00	45.55
	HETATM	4171	0	нон	139	-2.528	-20.361 12.354	1.00	52.13
	Hetatm	4172	9	нон	140	-7.864	7.706 19.248	1.00	47.82
15	HETATM	4173	0	HOH	141	11.577	-16.962 24.398	1.00	39.43
	HETATM	4174	0	нон	142	18.087	12.263 -5.507	1.00	33.36
	HETATM	4175	Ð	нон	143	-6.816	-14.190 10.674	1.00	51.32
	HETATM	4176	Ō	нон	144	-7.377	-16.701 33.528	1.00	57.11
	HETATM	4177	0	нон	145	-5.379	-20.107 32.689	1.00	43.01
20	HETATM	4178	0	нон	146	8.766	-7.947-16.274	1.00	49.96
	HETATM END	4179	0	нон	147	10.946	-7.937-18.142	1.00	55.67

5 Appendix 3

Atomic Coordinates for Human ERa Complexed With OHT

	10	CRYST1	58.24	12 58.	242	277.467	90.00	90.00	120.00	P 65	2 2 12
	10	ORIGX1	1 0	00000	0.00	0000	0.000000	0.00	000		
		ORIGX2		00000	1.00		0.000000	0.06			
		ORIGX3		00000	0.00		1.000000	0.00			
		SCALE1		17170	0.00		0.000000	0.00			
	15	SCALE2		00000	0.01		0.000000	0.00			
	13	SCALE3		00000	0.00		0.003604	0.00			
		ATOM	1	СВ	LEU	306	6.638	11.502			61.20
	20	MOTA	2	C	LEU	306	7.381	10.684			61.47
	20	ATOM	3	0	LEU	306	6.407	11.020			62.09
		ATOM	4	N	LEU	306	6.369	9.128			62.32
		MOTA	5	CA	LEU	306	7.232	10.330			61.30
		MOTA	6	N	ALA	307	8.609	10.605			60.52
i ana)	25	ATOM	7	CA	ALA	307	8.891 10.318	10.912			58.77 59.70
٥	23	ATOM	8	CB C	ALA ALA	307 307	8.692	12.393			57.5 1
ij		ATOM ATOM	9 10	0	ALA	307	8.451	12.770			57.64
10		ATOM	11	Ŋ	LEU	308	8.789	13.228			55.82
1.U		ATOM	12	CA	LEU	308	8.638	14.668			56.62
· ~	30	ATOM	13	CB	LEU	308	9.298	15.402			57.48
74 [ab	30	ATOM	14	CG	LEU	308	10.637	14.822			59.17
		ATOM	15	CD1	LEU	308	10.474	14.189			60.38
ii		ATOM	16	CD2	LEU	308	11.694	15.920			58.46
		ATOM	17	C	LEU	308	7.190	15.130			56.51
لدا	35	ATOM	18	ō	LEU	308	6.935	16.307			55.58
1.1		ATOM	19	N	SER	309	6.246	14.208			57.04
1-		ATOM	20	CA	SER	309	4.828	14.544			56.46
		ATOM	21	CB	SER	309	4.034	13.896			56.79
Ğ		ATOM	22	OG	SER	309	4.071	12.479	6.588	1.00	57.23
.=	40	ATOM	23	C	SER	309	4.261	14.095	9.003	1.00	56.13
		ATOM	24	O	SER	309	3.166	14.507	9.398	1.00	55.17
		ATOM	25	N	LEU	310	5.016	13.257	9.706	1.00	54.31
		ATOM	26	CA	LEU	310	4.591	12.749	11.004	1.00	53.55
		MOTA	27	CB	LEU	310	5.651	11.811			54.40
	45	ATOM	28	CG	LEU	310	5.586	10.333			56.49
		MOTA	29	CD1	LEU	310	5.530	10.200			57.06
		MOTA	30	CD2	LEU	310	6.809	9.610			57.28
		ATOM	31	C	LEU	310	4.330	13.865			
		ATOM	32	0	LEU	310	4.993	14.905			53.17
	50	ATOM	33	N	THR	311	3.352	13.641			51.71
		ATOM	34	CA	THR	311	3.017	14.604			49.93
		ATOM	35	CB	THR	311	1.527	14.554			48.96
		ATOM	36	OG1	THR	311	1.242	13.311			47.20
	~ ~	ATOM	37	CG3	THR	311	0.666	14.688			50.99
	55	ATOM	38	C	THR	311	3.815	14.201			48.84
		ATOM	39	0	THR	311	4.371	13.103			46.66
		ATOM	40	N	ALA	312	3.857	15.078			48.76
		ATOM	41	CA	ALA	312	4.590 4.359	14.798 15.910			47.75 47.06
	60	ATOM ATOM	42 43	CB	ALA ALA	312 312	4.359	13.460			
	5 0	ATOM	44	0	ALA	312	5.009	12.609			45.52
			X	•		J 2 2	5.007			4.00	

	5	MOTA	45	N	ASP	313	2.868	13.275	18.143	1.00	47.58
		MOTA	46	CA	ASP	313	2.367	12.032	18.714	1.00	47.63
		ATOM	47	CB	ASP	313	0.848	12.100	18.879	1.00	51.96
		ATOM	48	CG	ASP	313	0.430	12.872	20.118	1.00	56.21
		ATOM	49	OD1	ASP	313	1.314	13.234	20.929	1.00	56.38
	10	MOTA	50	OD2	ASP	313	-0.785	13.117	20.282	1.00	59.15
	. •	ATOM	51	C	ASP	313	2.745	10.846	17.835	1.00	43.93
			52	0		313	2.959	9.741	18.330	1.00	44.77
		MOTA			ASP						
		MOTA	53	N	GLN	314	2.826	11.081	16.531	1.00	44.52
		MOTA	54	CA	GLN	314	3.182	10.028	15.588	1.00	44.73
	15	MOTA	55	CB	GLN	314	2.849	10.464	14.156	1.00	45.05
		ATOM	56	CG	GLN	314	1.534	9.886		1.00	48.47
		MOTA	57	CD	GLN	314	0.982	10.646	12.428	1.00	50.37
		ATOM	58	OE1	GLN	314	1.649	11.515	11.856	1.00	49.38
		ATOM	59	NE2	GLN	314	-0.248	10.318	12.043	1.00	51,74
	20	ATOM	60	С	GLN	314	4.673	9.722	15.707	1.00	43.26
		ATOM	61	0	GLN	314	5.100	8.580	15.555	1.00	43.93
		ATOM	62	N	MET	315	5.459	10.757	15.980	1.00	42.29
		ATOM	63	CA	MET	315	6.901	10.606	16.130	1.00	41.26
		ATOM	64	CB	MET	315	7.565	11.985	16.224	1.00	42.43
	25	ATOM	65	CG	MET	315	9.082	11.939	16.356	1.00	42.34
	23		66				9.906		14.925		
Ð		MOTA		SD	MET	315		11.190		1.00	46.22
īŪ		ATOM	67	CE	MET	315	9.547	12.408	13.680	1.00	37.32
Ø		MOTA	68	C	MET	315	7.218	9.791	17.379	1.00	38.89
12		ATOM	69	0	MET	315	8.002	8.841	17.335	1.00	40.02
\	30	ATOM	70	N	VAL	316	6.599	10.165	18.491	1.00	37.65
		MOTA	71	CA	VAL	316	6.819	9.476	19.756	1.00	39.56
al-		ATOM	72	CB	VAL	316	6.023	10.136	20.897	1.00	39.22
4		MOTA	73	CG1	VAL	316	6.245	9.373	22.192	1.00	44.43
£1		ATOM	74	CG2	VAL	316	6.446	11.583	21.059	1.00	41.04
	35	ATOM	75	С	VAL	316	6.404	8.012	19.664	1.00	40.04
ليرا		ATOM	76	0	VAL	316	7;141	7.117	20.077	1.00	37.86
لنا		ATOM	77	N	SER	317	5.215	7.767	19.127	1.00	41.90
		ATOM	78	CA	SER	317	4.733	6.400	18.997	1.00	41.68
٠.		ATOM	79	CB	SER	317	3.311	6.402	18.415	1.00	43.85
۱Ð	40	ATOM	80	OG	SER	317	3.225	5.631	17.230	1.00	49.38
	••	ATOM	81	c	SER	317	5.696	5.601	18.114	1.00	39.72
		ATOM	82	0	SER	317	6.011	4.446	18.407	1.00	40.21
			83	N	ALA	318		6.220	17.043	1.00	38.35
		ATOM			ALA		6.182			1.00	
	45	ATOM	84	CA		318	7.114	5.540	16.153		36.96
	43	ATOM	85	CB	ALA	318	7.485	6.448	14.986	1.00	37.92
		ATOM	86	C	ALA	318	8.375	5.137	16.920	1.00	38.31
		ATOM	87	0	ALA	318	8.820	3.992	16.844	1.00	33.94
		ATOM	88	N	LEU	319	8.938	6.089	17.664	1.00	36.92
		ATOM	89	CA	LEU	319	10.161	5.854	18.438	1.00	38.56
	50	ATOM	90	CB	LEU	319	10.660	7.174	19.040	1.00	40.86
		ATOM	91	CG	LEU	319	11.136	8.264	18.071	1.00	41.25
		ATOM	92	CD1	LEU	319	11.714	9.440	18.857	1.00	44.30
		ATOM	93	CD2	LEU	319	12.182	7.693	17.140	1.00	42.61
		ATOM	94	C	LEU	319	9.965	4.826	19.549	1.00	38.33
	55	ATOM	95	0	LEU	319	10.779	3.916	19.729	1.00	33.91
		ATOM	96	N	LEU	320	8.879	4.982	20.297	1.00	37.39
		ATOM	97	CA	LEU	320	8.567	4.067	21.387	1.00	41.55
		ATOM	98	CB	LEU	320	7.239	4.467	22.049	1.00	38.47
			98 99						23.099	1.00	
	60	ATOM		CG	LEU	320	7.236	5.582			44.81
	00	ATOM	100	CD1	LEU	320	5.876	5.634	23.802	1.00	44.96
		ATOM	101	CD2	LEU	320	8.334	5.332	24.112	1.00	43.36
		ATOM	102	C	LEU	320	8.466	2.642	20.843	1.00	41.11

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	5	ATOM	103	0	LEU	320	8.971	1.697	21.443	1.00	41.87
		MOTA	104	N	ASP	321	7.812	2.504	19.696	1.00	43.94
		MOTA	105	CA	ASP	321	7.613	1.210	19.053	1.00	44.77
		ATOM	106	CB	ASP	321	6.669	1.372	17.860	1.00	48.39
		ATOM	107	CG	ASP	321	5.206	1.318	18,255	1.00	52.39
	10	ATOM	108	OD1	ASP	321	4.901	1.422	19.464	1.00	53.56
		MOTA	109	OD2	ASP	321	4.357	1.172	17.346	1.00	55.81
		ATOM	110	C	ASP	321	8.911	0.565	18.568	1.00	44.37
		ATOM	111	0	ASP	321	9.030	-0.661	18.533	1.00	44.67
		ATOM	112	N	ALA	322	9.878	1.395	18.193	1.00	40.75
	15	ATOM	113	CA	ALA	322	11.153	0.905	17.686	1.00	37.81
	, ,	ATOM	114	CB	ALA	322	11.772	1.954	16.776	1.00	38.07
		ATOM	115	C	ALA	322	12.148	0.513	18.769	1.00	35.52
		ATOM	116	Ö	ALA	322	13.219	-0.020	18.473	1.00	36.11
		ATOM	117	N	GLU	323	11.799	0.768	20.022	1.00	35.61
	20							0.460		1.00	
	40	ATOM	118	CA	GLU	323	12.704		21.117		36.39
		ATOM	119	CB	GLU	323	12.042	0.768	22.459	1,00	35.09
		ATOM	120	CG	GLU	323	12.209	2.210	22.899	1.00	37.93
		ATOM	121	CD	GLU	323	13.657	2.569	23.200	1.00	37.29
		ATOM	122	OE1	GLU	323	14.313	3.173	22.326	1.00	34.21
	25	MOTA	123	OE2	GLU	323	14.134	2.245	24.309	1.00	38.02
Ō		ATOM	124	C	GLU	323	13.205	-0.978	21.110	1.00	38.01
TU.		ATOM	125	0	GLU	323	12.425	-1.931	20.999	1.00	38.37
		ATOM	126	N	PRO	324	14.527	-1.151	21.225	1.00	36.03
Ü		MOTA	127	CD	PRO	324	15.522	-0.069	21.345	1.00	36.69
<u></u>	30	ATOM	128	CA	PRO	324	15.158	-2.474	21.240	1.00	36.42
		ATOM	129	CB	PRO	324	16.633	-2.166	21.003	1.00	35.75
		ATOM	130	CG	PRO	324	16.811	-0.807	21.610	1.00	35.46
1		ATOM	131	C	PRO	324	14.940	-3.162	22.583	1.00	35.75
ži.		ATOM	132	0	PRO	324	14.616	-2.517	23.580	1.00	34.97
	35	ATOM	133	N	PRO	325	15.134	-4.485	22.631	1,00	35.24
لبرا		ATOM	134	CD	PRO	325	15.530	-5.386	21.534	1.00	37.02
W		ATOM	135	CA	PRO	325	14.942	-5.208	23.889	1,00	34.65
		ATOM	136	CB	PRO	325	14.753	-6.652	23.439	1.00	35.83
Ð		ATOM	137	CG	PRO	325	15.589	-6.743	22.200	1.00	34.88
D D	40	ATOM	138	C	PRO	325	16.132	-5.070	24.824	1.00	34.51
		ATOM	139	0	PRO	325	17.237	-4.723	24.399	1.00	29.92
		ATOM	140	N	ILE	326	15.899	-5.322	26.106	1.00	33.62
		MOTA	141	CA	ILE	326	16.975	-5.265	27.075	1.00	35.02
		ATOM	142	CB	ILE	326	16.458	-4.891	28.473	1.00	38.11
	45										
	40	MOTA	143	CG2	ILE	326	17.557	-5.110	29.504	1.00	38.70
		MOTA	144	CG1	ILE	326	15.987	-3.431	28.466	1.00	40.48
		ATOM	145	CD1	ILE	326	16.035	-2.747	29.815	1.00	42.96
		MOTA	146	C	ILE	326	17.567	-6.668	27.103	1.00	34.14
		MOTA	147	0	ILE	326	16.875	-7.634	27.427	1.00	34.88
	50	MOTA	148	N	LEU	327	18.840	-6.784	26.745	1.00	29.64
		ATOM	149	CA	LEU	327	19.493	-8.083	26.716	1.00	29.54
		MOTA	150	CB	LEU	327	20.528	-8.135	25.587	1.00	27.76
		ATOM	151	CG	LEU	327	19.978	-7.800	24.196	1.00	29.02
		ATOM	152	CD1	LEU	327	21.068	-7.993	23.139	1.00	28.76
	55	ATOM	153	CD2	LEU	327	18.775	-8.688	23.891	1.00	31.26
		MOTA	154	С	LEU	327	20.156	-8.438	28.030	1,00	31.21
		ATOM	155	0	LEU	327	20.393	-7.578	28.891	1.00	30.12
		ATOM	156	N	TYR	328	20.445	-9.725	28.181	1.00	30.99
		ATOM	157	CA	TYR	328		-10.229	29.381	1.00	30.95
	60	ATOM	158	CB	TYR	328		-11.520	29.842	1.00	33.38
		ATOM	159	CG	TYR	328		-11.272	30.686	1.00	33.05
		ATOM	160	CD1	TYR	328		-11.398	32.071	1.00	31.92
					• •				J =		-

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	5	MOTA	161	CE1	TYR	328	18.152 -11.114	32.864	1.00	36.01
		MOTA	162	CD2	TYR	328	17.996 -10.862	30.110	1.00	36.05
		MOTA	163	CE2	TYR	328	16.880 -10.574	30.899	1.00	37.27
		MOTA	164	CZ	TYR	328	16.973 -10.702	32.274	1.00	37.66
		ATOM	165	ОН	TYR	328	15.896 -10.397	33.071	1.00	44.66
	10	ATOM	166	C	TYR	328	22.529 -10.520	29.067	1.00	33.66
	••	ATOM	167	Õ	TYR	328	22.884 -10.744	27.910	1.00	34.78
		MOTA	168	N	SER	329	23.359 -10.496	30.103	1.00	33.97
								29.962		37.29
		ATOM	169	CA	SER	329	24.767 -10.800		1.00	
	15	MOTA	170	CB	SER	329	25.526 -10.342	31.204	1.00	36.51
	15	ATOM	171	OG	SER	329	26.787 -10.965	31.282	1.00	37.13
		MOTA	172	С	SER	329	24.835 -12.317	29.832	1.00	40.43
		ATOM	173	0	SER	329	23.980 -13.028	30.363	1.00	40.11
		MOTA	174	N	GLU	330	25.845 -12.811	29.128	1.00	41.40
		MOTA	175	CA	GLU	330	25.992 -14.242	28.928	1.00	47.43
	20	MOTA	176	CB	GLU	330	26.423 -14.524	27.484	1.00	48.64
		MOTA	177	CG	GLU	330	25.278 -14.870	26.542	1.00	50.20
		MOTA	178	CD	GLU	330	25.765 -15.405	25.198	1.00	53.25
		MOTA	179	OE1	GLU	330	25.909 -16.640	25.062	1.00	53.27
		ATOM	180	OE2	GLU	330	26.004 -14.590	24.280	1.00	51.80
	25	MOTA	181	C	GLU	330	26.999 -14.852	29.893	1.00	49.67
		ATOM	182	ō	GLU	330	28.207 -14.741	29.696	1.00	50.11
۱D		MOTA	183	N	TYR	331	26.498 -15.493	30.942	1.00	53.62
IJ		ATOM	184	CA	TYR	331	27.373 -16.130	31.921	1.00	58.16
10										59.55
4	20	ATOM	185	CB	TYR	331	28.092 -15.078	32.774	1.00	
٠	30	MOTA	186	CG	TYR	331	27.239 -14.460	33.860	1.00	63.08
14		MOTA	187	CD1	TYR	331	26.656 -13.205	33.682	1.00	64.50
1		ATOM	188	CE1	TYR	331	25.864 -12.630	34.676	1.00	65.99
11		ATOM	189	CD2	TYR	331	27.010 -15.128	35,065	1.00	63.52
٦		MOTA	190	CE2	TYR	331	26.219 -14.563	36.066	1.00	65.60
لدا	35	MOTA	191	CZ	TYR	331	25.648 -13.314	35.864	1.00	67.20
		MOTA	192	OH	TYR	331	24.855 -12.753	36.839	1.00	67.40
ليا		MOTA	193	C	TYR	331	26.603 -17.080	32.823	1.00	59.05
Ç		MOTA	194	0	TYR	331	25.393 -16.942	33.002	1.00	59.22
Ü		ATOM	195	N	ASP	332	27.320 -18.045	33.387	1.00	61.62
۱Ď	40	ATOM	196	CA	ASP	332	26.719 -19.026	34.281	1.00	64.20
		ATOM	197	CB	ASP	332	27.681 -20.194	34.500	1.00	65.99
		ATOM	198	CG	ASP	332	26.961 -21.516	34.648	1.00	68.11
		ATOM	199	OD1	ASP	332	27.575 -22.564	34.351	1.00	69.54
		ATOM	200	OD2	ASP	332	25.781 -21.505	35.060	1.00	67.40
	45	ATOM	201	C	ASP	332	26.393 -18.371	35.619	1.00	63.33
		ATOM	202	Ō	ASP	332	27.292 -18.073	36.406	1.00	63.90
		ATOM	203	N	PRO	333	25.096 -18.148	35.896	1.00	63.64
		ATOM	204	CD	PRO	333	23.945 -18.509	35.053	1.00	64.35
				CA				37.154	1.00	63.52
	50	ATOM	205		PRO	333	24.677 -17.521			
	30	ATOM	206	CB	PRO	333	23.165 -17.333	36.993	1.00	63.53
		ATOM	207	CG	PRO	333	22.866 -17.611	35.556	1.00	64.15
		ATOM	208	С	PRO	333	25.010 -18.419	38.332	1.00	63.29
		ATOM	209	0	PRO	333	25.129 -17.964	39.468	1.00	63.28
		MOTA	210	N	THR	334	25.160 -19.704	38.037	1.00	64.26
	55	ATOM	211	CA	THR	334	25.475 -20.697	39.050	1.00	66.09
		ATOM	212	CB	THR	334	24.929 -22.080	38.645	1.00	66.90
		ATOM	213	OG1	THR	334	25.571 -22.513	37.439	1.00	68.06
		ATOM	214	CG2	THR	334	23.423 -22.012	38.411	1.00	67.57
		ATOM	215	С	THR	334	26.982 -20.804	39.269	1.00	65.67
	60	ATOM	216	0	THR	334	27.432 -21.323	40.289	1.00	64.77
		ATOM	217	N	ARG	335	27.759 -20.308	38.313	1.00	65.65
		ATOM	218	CA	ARG	335	29.214 -20.360	38.421	1.00	66.60
			~~ •				25.214 20.300	30.402		32.00

	•	3.5014		~~		225	20 225 20 5	00 37.030	1.00	66.74
	5	MOTA	219	CB	ARG	335	29.835 -20.5			
		MOTA	220	.€	ARG	335	29.757 -19.1		1.00	67.09
		atom	221	0	ARG	335	29.100 -18.0		1.00	67.31
		ATOM	222	N	PRO	336	30.968 -19.2	7 39.702	1.00	67.62
		MOTA	223	CD	PRO	336	31.820 -20.4	39.713	1.00	67.30
	10	ATOM	224	CA	PRO	336	31.601 -18.0	36 40.410	1.00	67.42
		ATOM	225	CB	PRO	336	32.982 -18.6		1.00	66.43
		ATOM	226	CG	PRO	336	32.829 -20.0		1.00	67.52
									1.00	68.26
		ATOM	227	C	PRO	336	31.701 -16.8			
		MOTA	228	0	PRO	336	31.996 -16.8		1.00	69,64
	15	MOTA	229	N	PHE	337	31.460 -15.6		1.00	69.49
		ATOM	230	ÇA	PHE	337	31.529 -14.4	39.480	1.00	71.39
		MOTA	231	CB	PHE	337	30.818 -13.3	33 40.294	1.00	72.31
		ATOM	232	CG	PHE	337	31.219 -11.9	24 39.921	1.00	73.21
		ATOM	233	CD1	PHE	337	30.632 -11.2		1.00	72.82
	20	ATOM	234	CD2	PHE	337	32.191 -11.2		1.00	73.43
	ZŲ				PHE	337	31.006 -9.9		1.00	73.28
		ATOM	235	CE1						
		MOTA	236	CE2	PHE	337	32.573 -9.9		1.00	73.00
		MOTA	237	CZ	PHE	337	31.980 -9.3		1.00	72.90
		MOTA	238	C	PHE	337	32.985 -14.0	L3 39.245	1.00	71.38
193	25	ATOM	239	0	PHE	337	33.336 -13.49	38.189	1.00	71.56
		ATOM	240	N	SER	338	33.825 -14.2	73 40.241	1.00	71.53
Q		ATOM	241	CA	SER	338	35.248 -13.9		1.00	70.98
ľŪ		ATOM	242	CB	SER	338	35.957 -14.4		1.00	70.43
Ü		ATOM	243	OG	SER	338	35.547 -15.8		1.00	69.59
ind.	30									
	30	ATOM	244	C	SER	338	35.931 -14.50		1.00	71.20
įt		MOTA	245	0	SER	338	36.951 -13.9		1.00	71.35
1		MOTA	246	N	GLU	339	35.368 -15.5		1.00	70.20
		MOTA	247	CA	GLU	339	35.930 -16.2		1.00	69.48
ii ares		ATOM	248	CB	GLU	339	35.279 -17.5	35 36.971	1.00	71.07
	35	ATOM .	249	CG	GLU	339	35.996 -18.7	37.656	1.00	72.60
إرا		ATOM	250	CD	GLU	339	35.382 -20.0	39 37.318	1.00	74.26
لِبا		ATOM	251	OE1	GLU	339	34.786 -20.23		1.00	73.51
		ATOM	252	OE2	GLU	339	35.496 -21.0		1.00	76.44
Ö		ATOM	253	C	GLU	339	35.770 -15.30		1.00	68.15
Ď	40								1.00	68.99
*89	40	ATOM	254	0	GLU	339				
		ATOM	255	N	ALA	340	34.562 -14.89		1.00	64.41
		ATOM	256	CA	ALA	340	34.246 -14.0		1.00	60.69
		ATOM	257	СВ	ALA	340	32.767 -13.70		1.00	61.17
		ATOM	258	C	ALA	340	35.096 -12.83	34.326	1.00	57.00
	45	ATOM	259	0	ALA	340	35.634 -12.2	70 35.287	1.00	57.46
		ATOM	260	N	SER	341	35.215 -12.30	38 33.076	1.00	52.15
		ATOM	261	CA	SER	341	35.972 -11,10		1.00	46.53
		ATOM	262	CB	SER	341	36.839 -11.43		1.00	48.64
		ATOM	263	og	SER	341	37.184 -10.22		1,00	46.48
	50									
	50	MOTA	264	C	SER	341	34.957 -10.00		1.00	43.52
		MOTA	265	0	SER	341	34.090 -10.24		1.00	39.92
		ATOM	266	N	MET	342	35.052 -8.9		1.00	41.24
		ATOM	267	CA	MET	342	34.121 -7.8	75 32.960	1.00	42.46
		MOTA	268	CB	MET	342	34.449 -6.73	33.912	1.00	45.61
	55	ATOM	269	CG	MET	342	33.228 -6.08	34.560	1.00	52.39
		ATOM	270	SD	MET	342	31.791 -7.20		1.00	57.92
		ATOM	271	CE	MET	342	31.999 -7.88		1.00	56.18
		ATOM	272	C	MET	342	34.124 -7.36		1.00	40.22
		ATOM	272	0	MET	342	33.063 -7.12		1.00	39.23
	60									
	UU	ATOM	274	N	MET	343	35.307 -7.20		1.00	38.72
•		MOTA	275	CA	MET	343	35.395 -6.70		1.00	38.50
		ATOM	276	CB	MET	343	36.838 -6.33	8 29.216	1.00	41.15

	5	MOTA	277	CG	MET	343	37.022	-5.749	27.804	1.00	40.31
		atom	278	SD	MET	343	36.032	-4.260	27,427	1.00	45.23
		ATOM	279	CE	MET	343	36.113	-3.358	28.987	1.00	40.45
		ATOM	280	C	MET	343	34.880	-7.741	28.561	1.00	35.36
		ATOM	281	0	MET	343	34.368	-7.384	27.501	1.00	35.51
	10	MOTA	282	N	GLY	344	35.017	-9.020	28,902	1.00	35.53
		ATOM	283	CA	GLY	344	34.533	-10.072	28.024	1.00	33.41
		ATOM	284	C	GLY	344	33.015	-10.063	28.047	1.00	31.74
		ATOM	285	ø	GLY	344	32.359	-10.233	27.019	1.00	29.58
		ATOM	286	N	LEU	345	32.459	-9.860	29.238	1.00	32.89
	15	ATOM	287	CA	LEU	345	31.011	-9.804	29.415	1.00	34.95
	·	ATOM	288	CB	LEU	345	30.665	-9.631	30.902	1.00	37,56
		ATOM	289	CG	LEU	345	30.942	-10.774	31.883	1.00	43.03
		MOTA	290	CD1	LEU	345	30.537	-10.357	33.297	1.00	41.57
		ATOM	291	CD2	LEU	345	30.164	-11.998	31.449	1.00	42.80
	20	ATOM	292	С	LEU	345	30.430	-8.614	28.633	1.00	33.71
		A'TOM	293	0	LEU	345	29.479	-8.757	27.868	1.00	30.29
		ATOM	294	N	LEU	346	31.021	-7.443	28.843	1.00	30.20
		ATOM	295	CA	LEU	346	30.569	-6.217	28.193	1.00	32.00
		ATOM	296	CB	LEU	346	31.317	-5.016	28.771	1.00	28,16
	25	ATOM	297	CG	LEU	346	31.091	-4.767	30,269	1.00	29.84
j !		ATOM	298	CD1	LEU	346	31.815	-3.498	30.668	1.00	29.98
		ATOM	299	CD2	LEU	346	29.614	-4.644	30.581	1.00	33.97
j.	•	ATOM	300	C	LEU	346	30.732	-6.250	26.682	1.00	30.70
•		ATOM	301	0	LĘU	346	29.869	-5.765	25.955	1.00	29.13
; I	30	MOTA	302	N	THR	347	31.839	-6.816	26.212	1.00	30.47
i		ATOM	303	CA	THR	347	32.086	-6.911	24.781	1.00	30.93
: !		ATOM	304	CB	THR	347	33.472	-7.501	24.497	1.00	29.97
į		ATOM	305	OG1	THR	347	34.481	-6.604	24.982	1.00	35.40
		ATOM	306	CG2	THR	347	33.666	-7.707	23.004	1.00	33.58
•	35	ATOM	307	C	THR	347	31.036	-7.804	24.122	1.00	31.97
		MOTA	308	0	THR	347	30.516	-7.486	23.049	1.00	30.75
!		ATOM	309	N	ASN	348	30.737	-8.926	24.768	1.00	29.31
		ATOM	310	CA	ASN	348	29.757	-9.868	24.242	1.00	32.63
		ATOM	311	CB	ASN	348	29.767	-11.161	25.065	1.00	31.64
•	40	MOTA	312	CG	ASN	348	28.646	-12.117	24.662	1.00	39.14
		ATOM	313	OD1	ASN	348	27.549	-12.078	25.220	1,00	41.91
		MOTA	314	ND2	asn	348	28.920	-12.970	23.683	1.00	42.05
		ATOM	315	C	asn	348	28.361	-9.251	24.262	1.00	29.02
		ATOM	316	0	asn	348	27.558	-9.477	23.353	1.00	32.76
	45	ATOM	317	N	LEU	349	28.078	-8.467	25.298	1.00	28.74
		ATOM	318	CA	LEU	349	26.782	-7.811	25.421	1.00	28.58
		MOTA	319	CB	LEU	349	26.650	-7.148	26.795	1.00	26.56
		MOTA	320	CG	LEU	349	25.376	-6.328	27.050	1.00	33.67
		MOTA	321	CD1	LEU	349	24.140	-7.199	26.840	1.00	28.82
	50	ATOM	322	CD2	LEU	349	25.392	-5.779	28.471	1.00	33.11
		MOTA	323	C	LEU	349	26.638	-6.762	24.319	1.00	28.07
		MOTA	324	0	LEU	349	25.616	-6.703	23.629	1.00	25.22
		ATOM	325	N	ALA	350	27.675	-5.941	24.157	1.00	28.50
	~ ~	ATOM	326	CA	ALA	350	27.668	-4.886	23.148	1.00	28.46
	55	ATOM	327	CB	ALA	350	28.972	-4.094	23.209	1.00	28.12
		ATOM	328	С	ALA	350	27.468	-5.461	21.750	1.00	28.75
		ATOM	329	0	ALA	350	26.649	-4.958	20.983	1.00	30.90
		MOTA	330	N	ASP	351	28.213	-6.509	21.420	1.00	27.20
	60	ATOM	331	CA	ASP	351	28.093	-7.143	20.112	1.00	29.75
	60	ATOM	332	CB	ASP	351	29.036	-8.345	20.010	1.00	34.16
		ATOM	333	CG	ASP	351	30.498	-7.940	19.978	1.00	37.50
		ATOM	334	OD1	ASP	351	31.354	-8.831	20.148	1.00	37.55
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	5	ATOM	335	OD2	ASP	351	30.789	-6.738	19.784	1.00	35.50
		ATOM	336	C	asp	351	26.661	-7.600	19.813	1.00	30.52
		ATOM	337	0	ASP	351	26.193	-7,458	18.687	1.00	27.77
		ATOM	338	N	ARG	352	25.968	-8.150	20.811	1.00	27.18
		ATOM	339	CA	ARG	352	24.593	-8.602	20.605	1.00	26.21
	10	ATOM	340	CB	ARG	352	24.148	-9.534	21.752	1.00	26.52
		ATOM	341	CG	ARG	352		-10.991	21.532	1.00	31.03
		ATOM	342	CD	ARG	352		-11.911	22.666	1.00	29.80
		ATOM	343	NE	ARG	352		-11.675	23.879	1.00	30.44
		MOTA	344	CZ	ARG	352		-11.363	25.054	1.00	31.68
	15	ATOM	345	NH1	ARG	352		-11.251	25.177	1.00	31.18
	13	ATOM	346	NH2	ARG	352		-11.148	26.104	1.00	32.03
		ATOM	347				23.642	-7.411	20.502	1.00	27.16
				C	ARG	352			19.708	1.00	26.65
		ATOM	348	0	ARG	352	22.702	-7.426			
	20	MOTA	349	N	GLU	353	23.896	-6.370	21.291	1.00	24,30
	20	ATOM	350	CA	GLU	353	23.045	-5.178	21.261	1.00	26.39
		ATOM	351	CB	GLU	353	23.461	-4.204	22.365	1.00	24.91
		ATOM	352	CG	GLU	353	23.147	-4.669	23.771	1.00	27.93
		ATOM	353	CD	GLU	353	23.425	-3.587	24.795	1.00	30.71
		ATOM	354	OE1	GLU	353	24.564	-3,534	25.304	1.00	30.09
	25	ATOM	355	OE2	GLU	353	22.506	-2.789	25.085	1.00	30.53
Ď		ATOM	356	C	GLU	353	23.131	-4.456	19,920	1.00	24.27
เป็		ATOM	357	0	GLU	353	22.169	-3.826	19.467	1.00	28.71
ij		ATOM	358	N	LEU	354	24.296	-4.540	19.293	1.00	26.61
₩ ₩		ATOM	359	ÇA	LEU	354	24.522	-3.872	18.017	1.00	26.62
`*\d	30	ATOM	360	CB	LEU	354	25.952	-4.121	17.543	1.00	26.36
		ATOM	361	CG	LEU	354	26.372	-3.257	16.351	1.00	29.24
102		ATOM	362	CD1	LEU	354	26.243	-1.774	16.722	1.00	26.59
1		ATOM	363	CD2	LEU	354	27.794	-3.607	15.962	1.00	28.88
11 1995		ATOM	364	C	LEU	354	23.559	-4.300	16.926	1.00	27.72
	35	ATOM	365	ō	LEU	354	23.074	-3.475	16.152	1.00	24.00
ليا	33	ATOM	366	N	VAL	355	23.291	-5.598	16.854	1.00	28.82
لدا		ATOM	367	CA	VAL	355	22.386	-6.125	15.844	1.00	29.45
		ATOM	368	CB	VAL	355	22.259	-7.655	15.975	1.00	31.76
١Ø		ATOM	369	CG1	VAL	355	21.423	-8.205	14.834	1.00	33.55
Ü	40	ATOM	370	CGS	VAL	355	23.649	-8.282	15.998	1.00	31.36
	70	ATOM	371	C	VAL	355 355	21.020	-5.499	16.035	1.00	27.71
				0				-5.039	15.080	1.00	29.61
		ATOM	372		VAL	355	20.382			1.00	27.76
		ATOM	373	N	HIS	356	20.580	-5.473	17.288	-	
	46	ATOM	374	CA	HIS	356	19.291	-4.906	17.627		28.35
	45	ATOM	375	CB	HIS	356	18.936	-5.231	19.079	1.00	31,12
		MOTA	376	ĊG ·	HIS	356	18.602	-6.675	19.307	1.00	35.93
		ATOM	377	CD2	HIS	356	19.352	-7.700	19.779	1.00	33,95
		ATOM	378	ND1	HIS	356	17.363	-7.208	19.018	1.00	36.62
		ATOM	379	CE1	HIS	356	17.364	-8.499	19.304	1.00	33.33
	50	MOTA	380	NE2	HIS	356	18.559	-8.823	19.76 7	1.00	32.16
		ATOM	381	C	HIS	356	19.300	-3.398	17.412	1.00	28.25
		ATOM	382	0	HIS	356	18.272	-2.812	17.100	1.00	28.99
		ATOM	383	N	MET	357	20.457	-2.765	17.574	1.00	25.31
		ATOM	384	CA	MET	357	20.526	-1.322	17.369	1.00	24.63
	55	ATOM	385	СВ	MET	357	21.902	-0.789	17.766	1.00	23.61
		ATOM	386	CG	MET	357	22.011	0.736	17.699	1.00	24.66
		ATOM	387	SD	MET	357	23.732	1.290	17.859	1.00	27.30
		ATOM	388	CE	MET	357	24.140	0.672	19.514	1.00	23.62
		ATOM ·	389	Ç	MET	357	20.256	-1.011	15.898	1.00	24.83
	60	ATOM	390	Ō	MET	357	19.619	-0.003	15.569	1.00	26.78
		ATOM	391	Ŋ	ILE	358	20.757	-1.874	15.020	1.00	26.25
		ATOM	392	CA	ILE	358	20.553	-1.721	13.576	1.00	30.33
			J J ~			550	20.333		,,,		JJ

	5	ATOM	451	C	VAL	364	13.360	6.591	12.171	1.00	33.19
		MOTA	452	0	VAL	364	14.028	6.531	11.146	1.00	33.04
		ATOM	453	N	PRO	365	12.225	7.310	12.234	1.00	34.69
		ATOM	454	CD	PRO	365	11.359	7.492	13.413	1.00	34.19
		ATOM	455	CA	PRO	365	11.724	8.050	11.069	1.00	35.96
	10	ATOM	456	СВ	PRO	365	10.608	8.918	11.645	1.00	36.59
	. •	ATOM	457	CG	PRO	365	10.135	8.157	12.842	1.00	39.59
		ATOM	458	C	PRO	365	12.756	8.878	10.321	1.00	37.19
		ATOM	459	0	PRO	365	13.430	9.726	10.907	1.00	40.29
		ATOM	460	N	GLY	366	12.878	8.624	9.023	1.00	34.78
	15					366			8.212		33.54
	15	ATOM	461	CA	GLY		13.816	9.371		1.00	
		ATOM	462	C	GLY	366	15.168	8.722	8.007		34.26
		ATOM	463	0	GLY	366	15.858	9.035	7.034	1.00	37.15
		ATOM	4.64	N	PHE	367	15.554	7.814	8.901	1.00	33,13
		MOTA	465	CA	PHE	367	16.860	7.164	8.787	1.00	32.04
	20	ATOM	466	CB	PHE	367	17.138	6.291	10.016	1.00	30.22
		ATOM	467	CG	PHE	367	18.544	5.773	10.080	1.00	30.60
		ATOM	468	CD1	PHE	367	18.827	4.446	9.751	1.00	31.94
		ATOM	469	CD2	PHE	367	19.589	6.601	10.485	1.00	29.20
		ATOM	470	CE1	PHE	367	20.133	3.950	9.828	1.00	28.30
400	25	ATOM	471	CE2	PHE	367	20.896	6.122	10.568	1.00	28.12
		ATOM	472	CZ	PHE	367	21.171	4.791	10.240	1.00	25.41
Û		ATOM	473	С	PHE	367	17.033	6.333	7.524	1,00	31.46
IJ		ATOM	474	0	PHE	367	18.073	6.405	6.883	1.00	32.30
Ø		ATOM	475	N	VAL	368	16.027	5.541	7.165	1.00	35.20
-	30	ATOM	476	CA	VAL	368	16.123	4.718	5.959	1.00	38.98
1		ATOM	477	СВ	VAL	368	15.076	3.584	5.945	1.00	40.61
i ab		ATOM	478	CG1	VAL	368	15.543	2.447	6.843	1.00	41.48
4		ATOM	479	CG2	VAL	368	13.717	4.113	6.390	1.00	41.60
äi		ATOM	480	C	VAL	368	15.965	5.523	4.673	1.00	40.06
	35	ATOM	481	0	VAL	368	16.156	4.992	3.579	1.00	41.66
l,Ú	33						15.608	6.798	4.798	1.00	38.65
IJ		ATOM	482	N	ASP	369				1.00	
		MOTA	483	CA	ASP	369	15.465	7.646	3.621		37.15 39.89
ā		ATOM	484	CB	ASP	369	14.700	8.929	3.954	1.00	
.D	46	MOTA	485	CG	ASP	369	13.254	8.671	4.302	1.00	45.59
. 102	40	MOTA	486	OD1	ASP	369	12.686	7.672	3.806	1.00	46.34
		MOTA	487	OD2	ASP	369	12.681	9.472	5.074	1.00	49.13
		ATOM	488	C	ASP	369	16.855	8.010	3.136		34.91
		ATOM	489	0	ASP	369	17.038	8.431	1.995	1.00	34.25
	4 6"	ATOM	490	N	LEU	370	17.838	7.841	4.016	1.00	
	45	ATOM	491	CA	LEU	370	19.229	8.153	3.705	1.00	28.08
		MOTA	492	CB	LEU	370	20.020	8.339	5.003	1.00	28.81
		ATOM	493	CG	LEU	370	19.523	9.395	6.000	1.00	28.74
		ATOM	494	CD1	LEU	370	20.315	9.275	7.299	1.00	30.81
		ATOM	495	CD2	LEU	370	19.693	10.792	5.404	1.00	29.77
	50	MOTA	496	C	LEU	370	19.884	7.043	2,893	1.00	31.25
		ATOM	497	0	LEU	370	19.341	5.943	2.784	1,00	31.78
		ATOM	498	N	THR	371	21.052	7.333	2.331	1.00	28.86
		ATOM	499	CA	THR	371	21.793	6.336	1.569	1.00	32.90
		ATOM	500	CB	THR	371	22.979	6.944	0.818	1.00	33.44
	55	ATOM	501	OG1	THR	371	23.880	7.523	1.766	1.00	34.59
		ATOM	502	CG2	THR	371	22.514	8.002	-0.178	1.00	32.63
		ATOM	503	C	THR	371	22.373	5.315	2.539	1.00	35.31
		ATOM	504	0	THR	371	22.536	5.591	3.733	1.00	31.27
		ATOM	505	N	LEU	372	22.702	4.141	2.015	1.00	34.34
	60	ATOM	506	CA	LEU	372	23.273	3.073	2.822	1.00	35.46
	-	ATOM	507	CB	LEU	372	23.518	1.841	1.944	1.00	37.73
		ATOM	508	CG	LEU	372	24.362	0.704	2.515	1.00	42.43
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	5	MOTA	509	CD1	LEU	372	23.690	0.145	3.757	1.00	45.60
		ATOM	510	CD2	LEU	372	24.534	-0.383	1.455	1,00	44,29
		MOTA	511	С	LEU	372	24.587	3.548	3.444	1.00	36.95
		MOTA	512	0	LEU	372	24,813	3.374	4.643	1.00	35.57
		ATOM	513	N	HIS	373	25.442	4.159	2.627	1.00	35.68
	10	ATOM	514	CA	HIS	373	26.729	4.656	3.099	1,00	36.60
	10	ATOM	515	CB	HIS	373	27.506	5.282	1.935	1.00	44.01
		ATOM		CG		373 373	28.538	6.280	2.360	1.00	50.69
			516		HIS				2.536	1.00	
		ATOM	517	CD2	HIS	373	29.857	6.138			54.69
	1.0	MOTA	518	ND1	HIS	373	28.246	7.613	2.561	1.00	53.77
	15	MOTA	519	CE1	HIS	373	29.339	8.248	2.945	1.00	57.09
		MOTA	520	NE2	HIS	373	30.331	7.376	2.999	1.00	57.23
•		MOTA	521	C	HIS	373	26.575	5.669	4.244	1.00	36.22
		MOTA	522	0	HIS	373	27.350	5.650	5.201	1.00	33.05
		MOTA	523	N	ASP	374	25.580	6.549	4.148	1.00	32.03
	20	MOTA	524	CA	ASP	374	25.342	7.541	5.196	1.00	30.76
		ATOM	525	CB	ASP	374	24.354	8.603	4.713	1.00	30.12
		ATOM	526	CG	ASP	374	25.018	9.672	3.860	1.00	35.83
		ATOM	527	OD1	ASP	374	26.264	9.744	3.842	1.00	34.39
		ATOM	528	OD2	ASP	374	24.291	10.440	3.199	1.00	35.39
	25	ATOM	529	C	ASP	374	24.805	6.876	6.472	1.00	30.33
		ATOM	530	Ö	ASP	374	25.152	7.275	7.587	1.00	27.04
D	•	ATOM	531	N	GLN	375	23.944	5.877	6.309	1.00	25.71
Ü		ATOM	532	CA	GLN	375	23.403	5.157	7.454	1.00	26.68
170		ATOM	533	CB	GLN	375	22.424	4.077	6.993	1.00	29.70
- - - -	30								6.484		29.16
14	30	ATOM	534	CG	GLN	375	21.101	4,616		1.00	
4		ATOM	535	CD	GLN	375	20.219	3.514	5.940	1.00	35.87
أميا		ATOM	536	OE1	GLN	375	20.155	2.426	6.510	1.00	30.97
11		ATOM	537	NE2	GLN	375	19.541	3.785	4.827	1.00	34.51
٦		MOTA	538	C	GLN	375	24.556	4.502	8.214	1,00	25.51
لرا	35	MOTA	539	0	GLN	375	24.585	4.513	9.442	1.00	28.14
لدا		MOTA	540	Ņ	VAL	376	25.504	3.938	7.475	1.00	26.62
144 144		MOTA	541	CA	VAL	376	26.659	3.281	8.071	1.00	29.24
		ATOM	542	CB	VAL	376	27.531	2.597	7.003	1.00	29.66
Ē		ATOM	543	CG1	VAL	376	28.812	2.071	7.635	1.00	28.29
Û	40	ATOM	544	CG2	VAL	376	26.745	1.469	6.341	1.00	29.90
		ATOM	545	C	VAL	376	27.526	4.285	8.821	1.00	30.87
	•	ATOM	546	0	VAL	376	27.953	4.029	9.948	1.00	30.09
		ATOM	547	N	HIS	377	27.785	5.428	8.191	1.00	28.05
		ATOM	548	CA	HIS	377	28,602	6.457	8.814	1.00	28.68
	45	ATOM	549	CB	HIS	377	28.792	7.639	7.864	1.00	30.26
		ATOM	550	CG	HIS	377	29.508	8.791	8.488	1.00	33.89
		ATOM	551	CD2	HIS	377	29.073	10.017	8.863	1.00	34.99
		ATOM	552	ND1	HIS	377	30.846	8.740	8.823	1.00	37.01
		ATOM	553	CE1	HIS	377	31.201	9.884	9.377	1.00	34.79
	50			NE2	HIS	377	30.144	10.677	9.413	1.00	34.95
	50	ATOM	554								
		ATOM	555	C	HIS	377	27.983	6.954	10.114	1.00	25.13
		ATOM	556	0	HIS	377	28.677	7.102	11.115	1.00	25.93
		ATOM	557	N	LEU	378	26.678	7.206	10.107	1.00	24.58
		ATOM	558	CA	ĻEU	378	26.015	7.695	11.315	1.00	26.40
	55	ATOM	559	CB	LEU	378	24.542	8.001	11.027	1.00	26.29
		ATOM	560	CG	LEU	378	24.291	9.180	10.073	1.00	28.06
		ATOM	561	CD1	LEU	378	22.778	9.353	9.869	1.00	27.66
		ATOM	562	CD2	LEU	378	24.911	10.458	10.642	1.00	30.08
		MOTA	563	С	LEU	378 .	26.120	6.695	12.459	1.00	28.55
	60	ATOM	564	0	LEU	378	26.379	7.075	13.605	1.00	24.76
		ATOM	565	N	LEU	379	25.919	5.414	12.153	1.00	24.29
		ATOM	566	CA	LEU	379	26.000	4.388	13.182	1.00	27.03

	5	ATOM	567	CB	LEU	379	25.401	3.073	12.667	1.00	28.53
		ATOM	568	CG	LEU	379	23.875	3.023	12.845	1.00	30.29
•		ATOM	569	CD1	LEU	379	23.248	1.943	11.963	1.00	33.04
		ATOM	570	CD2	LEU	379	23.563	2.759	14.312	1.00	29.45
		ATOM	571	C	LEU	379	27.430	4.176	13.670	1.00	27.18
	10	MOTA	572	ō	LEU	379	27.653	3.979	14.866	1.00	25.95
	10	· ·		и	GLU	380				1.00	
		ATOM	573				28.402	4,236	12.762		25.86
		ATOM	574	CA	GLU	380	29.786	4.054	13.173	1.00	27.58
		MOTA	575	CB	GLU	380	30.730	4.036	11.968	1.00	30.36
		MOTA	576	CG	GLU	380	32.172	3.785	12.380	1.00	37.98
	15	ATOM	577	CD	GLU	380	33.080	3.471	11.210	1.00	45.23
		MOTA	578	OE1	GLU	380	32.869	4.048	10.120	1.00	42.99
		MOTA	579	OE2	GLU	380	34.004	2.646	11.386	1.00	45.79
		ATOM	580	C	GLU	380	30.218	5.159	14.133	1.00	27.50
		ATOM	581	0	GLU	380	31.056	4.937	15.010	1.00	26.67
	20	ATOM	582	N	ACYS	381	29.637	6.339	13.965	0.75	24.89
		ATOM	583	N	BCYS	381	29.645	6.352	13.980	0.25	25.79
		ATOM	584	CA	ACYS	381	29.969	7.466	14.826	0.75	24.12
		ATOM	585	CA	BCYS	381	29.993	7.481	14.847	0.25	24.86
		ATOM	586	CB	ACYS	381	29.533	8.781	14.122	0.75	25.96
	25										-
	23	ATOM	587	CB	BCYS	381	29.766	8.814	14.115	0.25	25.62
·		MOTA	588	SG	ACYS	381	30.698	9.192	12,732	0.75	31.63
ĪŪ		MOTA	589	SG	BCYS	381	30.227	10.312	15.059	0.25	25.40
Ø	•	ATOM	590	C	ACYS	381	29.237	7.422	16.162	0.75	22.07
1		MOTA	591	С	BCYS	381	29.211	7.498	16,159	0.25	23.97
ني	30	ATOM	592	0	ACYS	381	29.812	7.730	17.206	0.75	21.97
j.		MOTA	593	0	BCYS	381	29.724	7.940	17.187	0,25	23.99
		ATOM	594	N	ALA	382	27.974	7.012	16.128	1.00	23.41
		MOTA	595	CA	ALA	382	27.140	7.015	17.318	1.00	22.83
E) - 1555		ATOM	596	CB	ALA	382	25.785	7.587	16.948	1,00	25.50
	35	MOTA	597	С	ALA	382	26.913	5.755	18.131	1.00	25.39
لدا		ATOM	598	0	ALA	382	26.374	5.837	19.234	1.00	23.09
إيزا		ATOM	599	N	TRP	383	27.311	4.602	17.615	1.00	25.98
		ATOM	600	CA	TRP	383	27.026	3.354	18.318	1.00	23.80
۱D		ATOM	601	CB	TRP	383	27.669	2.172	17.580	1.00	22.52
Đ,	40	ATOM	602	CG	TRP	383	29.130	2.054	17.762	1.00	24.42
	••	ATOM	603	CD2	TRP	383	29.797	1.347	18.803	1.00	27.31
		ATOM	604						·-·		
				CE2	TRP	383	31.182	1.484	18.579	1.00	28.24
		MOTA	605	CE3	TRP	383	29.360	0.609	19.912	1.00	27.37
	A E	ATOM	606	CD1	TRP	383	30.102	2.578	16.965	1.00	24.58
	45	ATOM	607	NE1	TRP	383	31.342	2.239	17.446	1.00	27.35
		MOTA	608	CZ2	TRP	383	32.133	0.909	19.420	1.00	28.76
		MOTA	609	CZ3	TRP	383	30.305	0.039	20.745	1.00	28.09
		ATOM	610	CH2	TRP	383	31.674	0.191	20.496	1.00	29.77
		MOTA	611	C	TRP	383	27.356	3.309	19.802	1.00	23.54
	50	MOTA	612	0	TRP	383	26.526	2.866	20.584	1.00	22.90
		MOTA	613	N	LEU	384	28.542	3.765	20.211	1.00	20.37
		ATOM	614	CA	LEU	384	28.864	3.713	21.640	1.00	22.41
		MOTA	615	CB	ĻEU	384	30.369	3.890	21.883	1.00	24.98
		ATOM	616	CG	LEU	384	30.824	3.645	23.336	1.00	27.33
	55	ATOM	617	CD1	LEU	384	30.273	2.305	23.853	1.00	29.71
	-	MOTA	618	CD2	LEU	384	32.336	3.648	23.398	1.00	26.07
		ATOM	619	CD2							
					LEU	384	28.075	4.732	22.453	1.00	19.44
		ATOM	620		LEU	384	27.706	4.458	23.595	1.00	23.24
	60	ATOM	621	N	GLU	385	27.807	5.909	21.885	1.00	20.80
	OU.	ATOM	622	CA	GLU	385	27.011	6.895	22.612	1.00	21.32
		ATOM	623	CB	GLU	385	26.861	8.177	21.797	1.00	21.91
		ATOM	624	CG	GLU	385	28.115	9.020	21.705	1.00	21.61

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	5	MOTA	625	CD	GLU	385	27.882	10.256	20.860	1.00	29.53
		ATOM	626	OE1	GLU	385	27.374	11.256	21.401	1.00	30.54
		MOTA	627	OE2	GLU	385	28.188	10.219	19.658	1.00	29.97
		MOTA	628	C	GLU	385	25.616	6.292	22.836	1.00	22.26
		MOTA	629	0	GLU	385	25.022	6.438	23.902	1.00	22.26
	10	ATOM	630	N	ILE	386	25.101	5.617	21.812	1,00	22.03
		ATOM	631	CA	ILE	386	23.779	4.995	21.896	1.00	22,74
		ATOM	632	CB	ILE	386	23.328	4.455	20.498	1,00	22.88
		ATOM	633	CG2	ILE	386	22.009	3.647	20.618	1.00	23.85
		ATOM	634	CG1	ILE	386	23.085	5.651	19.561	1.00	25.05
	15	ATOM	635	CD1	ILE	386	22.994	5.297	18.078	1.00	26.42
	15		636			386		3.897	22.961	1.00	22,50
		ATOM		C	ILE		23.766				
		ATOM	637	Ò	ILE	386	22.823	3.818	23.746	1.00	24.75
		MOTA	638	N	LEU	387	24.810	3.071	23.020	1.00	22.25
		ATOM	639	CA	LEU	387	24.868	2.030	24.051	1.00	22.95
	20	MOTA	640	CB	LEU	387	26.096	1.132	23.864	1.00	24.61
		MOTA	641	CG	ĻEU	387	26.070	0.194	22.654	1.00	23.21
		ATOM	642	CD1	LEU	387	27.297	-0.709	22.705	1.00	25.36
		ATOM	643	CD2	LEU	387	24.791	-0.631	22.652	1.00	26.29
		ATOM	644	C	LEU	387	24.944	2.660	25.438	1.00	26.22
: 42	25	ATOM	645	0	LEU	387	24.287	2.204	26.386	1.00	23.55
		ATOM	646	N	MET	388	25.751	3.713	25.554	1.00	23.92
Ø		ATOM	647	CA	MET	388	25.924	4.385	26.835	1.00	24.26
N		ATOM	648	CB	MET	388	27.088	5.378	26.761	1.00	23.87
Ü		ATOM	649	CG	MET	388	28.440	4.722	26.743	1.00	24.08
d	30	ATOM	650	SD	MET	388	29.726	5.992	26.736	1.00	27.70
4	50	ATOM	651	CE	MET	388	31.139	5.041	27.078	1.00	21.74
빠		ATOM	652	C	MET	388	24.660	5.094	27.321	1.00	23.33
'Adj		ATOM	653	0	MET	388	24.341	5.026	28.505	1.00	25.58
H		MOTA	654	N	ILE	389	23.935	5.775	26.436	1.00	24.62
	35	MOTA	655	CA	ILE	389	22.729	6.440	26.905	1,00	24.02
ليرا	55	MOTA	656	CB	ILE	389	22.729	7.439	25.852	1.00	27.01
Į,J											
		ATOM	657	CG2	ILE	389	21.413	6.705	24.706	1.00	23,98
Ō		MOTA	658	CG1	ILE	389	21.185	8.402	26.584	1.00	25.49
νĎ	40	ATOM	659	CD1	ILE	389	20.431	9.383	25.683	1.00	25.45
٠₩	40	ATOM	660	C	ILE	389	21.694	5.401	27.349	1.00	26.54
		atom	661	0	ILE	389	20.938	5.631	28.294	1.00	22.58
		MOTA	662	N	GLY	390	21.679	4.247			27.14
		ATOM	663	CA	GLY	390	20.753	3.201	27.090	1.00	28.42
		MOTA	664	C	GLY	390	21,133	2.719	28.482	1,00	29.67
	45	MOTA	665	0	GLY	390	20.275	2.521	29.348	1.00	29.21
		MOTA	666	N	LEU	391	22.433	2.547	28.699	1,00	26.06
		ATOM	667	CA	LEU	391	22.955	2.091	29.983	1.00	29.23
		ATOM	668	CB	LEU	391	24.476	1.937	29.899	1.00	28.37
		ATOM	669	CG	LEU	391	25.206	1.656	31.210	1.00	30.81
	50	MOTA	670	CD1	LEU	391	24.717	0.332	31.793	1.00	25.73
		ATOM	671	CD2	LEU	391	26.709	1.619	30.958	1.00	25.25
		ATOM	672	C	LEU	391	22.603	3.070	31.104	1.00	30.84
		ATOM	673	Ö	LEU	391	22.156	2.669	32.186	1.00	29.19
		ATOM	674	N	VAL	392	22.817	4.355	30.850	1.00	28.91
	55	ATOM	675	CA	VAL	392	22.506	5.369	31.851	1.00	28.86
	<i>J J</i>										30.08
		ATOM	676	CB	VAL	392	22.923	6.770	31.353	1.00	
		ATOM	677	CG1	VAL	392	22.329	7.854	32.237	1.00	32.32
		ATOM	678	CG2	VAL	392	24.442	6.870	31.372	1.00	28.52
	60	ATOM	679	C	VAL	392	21.013	5.327	32.165	1.00	28,42
	60	MOTA	680	0	VAL	392	20.621	5.345	33.327	1.00	30.38
		MOTA	681	N	TRP	393	20.191	5.241	31.125	1.00	28.23
		MOTA	682	CA ·	TRP	393	18.732	5.186	31.280	1.00	29.70

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	5	ATOM	741	CA	PRO	399	21.785	4.968	42.586	1.00	45.35
		MOTA	742	CB	PRO	399	21.127	5.631	43.793	1.00	47.40
		MOTA	743	CG	PRO	399	19.660	5.561	43.504	1.00	47.72
		ATOM	744	C	PRO	399	23.086	4.270	42.958	1.00	44.70
		ATOM	745	0	PRO	399	23.078	3.233	43.627	1.00	46.46
	10	ATOM	746	N	GLY	400	24.202	4.840	42.509	1.00	41.57
		ATOM	747	CA	GLY	400	25.506	4.281	42.813	1.00	39.84
		ATOM	748	C	GLY	400	25.907	3.047	42,022	1.00	37.85
				õ	GLY	400	27.027	2.560	42.176	1.00	40.48
		ATOM	749								
		ATOM	750	N	LYS	401	25.012	2.537	41.180		36.39
	15	ATOM	751	CA	LYS	401	25.315	1.344	40.390	1.00	34.47
		MOTA	752	CB	LYS	401	24.562	0.130	40.947	1.00	36.12
		MOTA	753	CG	LYS	401	24.633	-0.007	42.466	1.00	39.30
		ATOM	754	CD	LYS	401	24.288	-1.429	42.903	1.00	44.38
		ATOM	755	CE	LYS	401	24.459	-1.605	44.408	1.00	46.68
	20	ATOM	756	NZ	LYS	401	24.968	-2.969	44.747	1.00	53.37
		ATOM	757	C	LYS	401	24.969	1.485	38.911	1.00	32.34
		ATOM	758	Ö	LYS	401	24.141	2.308	38.531	1.00	31.16
		ATOM	759	N	LEU	402	25.612	0.663	38.086	1.00	28.52
			760		LEU	402	25.358	0.658	36.648	1.00	29.06
	25	ATOM		CA							
	25	ATOM	761	CB	LEU	402	26,661	0.847	35.867	1.00	29.26
Ö		ATOM	762	CG	LEU	402	27.278	2.242	36.029	1.00	24.67
IU		ATOM	763	CD1	LEU	402	28.623	2.310	35.310	1.00	27.47
(0		ATOM	764	CD2	LEU	402	26.312	3.277	35.482	1.00	24.93
4		MOTA	765	С	LEU	402	24.755	-0.686	36.292	1.00	30.43
	30	ATOM	766	0	LEU	402	25.367	-1.727	36.535	1.00	31.36
1.4	•	ATOM	767	N	LEU	403	23.552	-0.658	35.735	1.00	31.07
		ATOM	768	CA	LEU	403 .	22.873	-1.880	35.335	1.00	32.96
'~		ATOM	769	CB	LEU	403	21.361	-1.693	35.434	1.00	33.86
!!		ATOM	770	CG	LEU	403	20.551	-2.991	35.415	1.00	39.29
	35	ATOM	771	CD1	LEU	403	20.584	-3.637	36.806	1.00	43.62
ليا	-	ATOM	772	CD2	LEU	403	19.128	-2.689	34.998	1.00	41.32
لدا		ATOM	773	C	LEU	403	23.255	-2.218	33.899	1.00	30.06
								-1.870	32.956	1.00	31.63
D		ATOM	774	0	LEU	403	22.543				
ō	40	ATOM	775	N.	PHE	404	24.383	-2.893	33.733	1.00	29.19
, case	40	ATOM	776	CA	PHE	404	24.834	-3.256	32.403	1.00	28.93
		MOTA	777	CB	PHE	404	26.201	-3.929	32.493	1.00	30.05
		ATOM	778	CG	PHE	404	27.305	-2.998	32.926	1.00	30.78
		ATOM	779	CD1	PHE	404	27.794	-3.033	34.228	1.00	32.91
		ATOM	780	CD2	PHE	404	27.848	-2.078	32.030	1.00	32.75
	45	ATOM	781	CE1	PHE	404	28.816	-2.160	34.638	1.00	34.73
		ATOM	782	CE2	PHE	404	28.864	-1.205	32.423	1,00	30.68
		MOTA	783	CZ	PHE	404	29.350	-1.242	33.727	1.00	31.43
		ATOM	784	С	PHE	404	23.809	-4.181	31.756	1.00	30.80
		ATOM	785	o	PHE	404	23.625	-4.175	30.538	1.00	28.09
	50	ATOM	786	N	ALA	405	23.138	-4.967	32.594	1.00	30.25
	50	ATOM	787	CA	ALA	405	22.104	-5.910	32.163	1.00	29.78
		ATOM					22.745	-7.172	31.598	1.00	29.97
			788	CB	ALA	405					
		ATOM	789	C	ALA	405	21.309	-6.237	33.429	1.00	31.95
		ATOM	790	0	ALA	405	21.785	-5.995	34.535	1.00	32.36
	55	ATOM	791	N	PRO	406	20.088	-6.779	33.288	1.00	34.40
		ATOM	792	CD	PRO	406	19.356	-7.102	32.053	1.00	35.81
		ATOM	793	CA	PRO	406	19.303	-7.101	34.490	1.00	36.41
		ATOM	794	CB	PRO	406	17.985	-7.654	33.935	1.00	35.38
		ATOM	795	CG	PRO	406	17.922	-7.153	32.519	1.00	36.49
	60	ATOM	796	С	PRO	406	19.997	-8.084	35.433	1.00	37.32
		ATOM	797	0	PRO	406	19.698	-8.112	36.626	1.00	38.34
		ATOM	798	N	ASN	407	20.924	-8.877	34.902	1.00	36.69
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	5	ATOM	799	CA	ASN	407	21.652	-9.847	35.712	1.00	38.85
		MOTA	800	CB	ASN	407	21.582	-11.243	35.083	1.00	39.69
		ATOM	801	CG	ASN	407	22.232	-11.306	33.711	1.00	44.10
		ATOM	802	OD1	ASN	407	22.345	-10.296	33.009	1.00	37.78
		ATOM	803	ND2	ASN	407	22.660	-12.503	33.319	1.00	45.74
	10	ATOM	804	C	ASN	407	23.100	-9.435	35.874	1,00	38.12
	•	ATOM	805	o	ASN	407	23.965	-10.256	36.178	1.00	39.81
		ATOM	806	N	LEU	408	23.364	-8.149	35.671	1.00	37.80
		ATOM	807	CA	LEU	408	24.713	-7.631	35.799	1.00	36.89
		ATOM	808	CB	LEU	408	25.449	-7.720	34.459	1.00	36.09
	15	ATOM	809	CG	LEU	408	26.972	-7.609	34.550	1.00	35.08
	13					408			35.354	1.00	39.15
		ATOM	810	CD1	LEU		27.525	-8.775			36.85
		MOTA	811	CD2	LEU	408	27.578	-7.587	33.158	1.00	
		ATOM	812	C	LEU	408	24.670	-6.187	36.286	1.00	40.55
	20	MOTA	813	0	LEU	408	24.646	-5.248	35.491	1.00	38.29
	20	ATOM	814	N	LEU	409	24.644	-6.034	37.607	1.00	39.50
		ATOM	815	CA	LEU	409	24.606	-4.733	38.257	1,00	41.00
		MOTA	816	CB	LEU	409	23.392	-4.658	39.184	1.00	43.69
		MOTA	817	CG	LEU	409	23.164	-3.382	39.993	1.00	47.35
		MOTA	818	CD1	LEU	409	22.848	-2.233	39.058	1.00	47.09
13	25	ATOM	819	CD2	LEU	409	22.014	-3.603	40.976	1.00	49.38
Ö		MOTA	820	C	LEU	409	25.894	-4.566	39.060	1.00	41.80
เป็		ATOM	821	0	LEU	409	26.178	-5.358	39.960	1.00	41.00
		ATOM	822	N	LEU	410	26.676	-3.544	38.727	1.00	39.23
Ø		ATOM	823	CA	LEU	410	27.931	-3.296	39.423	1.00	40.45
	30	ATOM	824	СВ	LEU	410	29.106	-3.354	38.442	1.00	41.59
إي		ATOM	825	CG	LEU	410	29.457	-4.660	37.716	1.00	44.87
4		ATOM	826	CD1	LEU	410	30.972	-4.728	37.554	1.00	45.41
'~		ATOM	827	CD2	LEU	410	28.949	-5.872	38.484	1.00	47.02
¥1		ATOM	828	C	LEU	410	27.946	-1.944	40.132	1.00	40.67
	35	ATOM	829	0	LEU	410	27.361	-0.970	39.652	1.00	40.22
LL	33	ATOM	830	N	ASP	411	28.610	-1.890	41.281	1.00	41.57
		ATOM	831	CA	ASP	411	28.717	-0.640	42.025	1.00	42.69
		ATOM	832	CB	ASP	411	28.490	-0.874	43.528	1.00	44.44
Ü		ATOM	833	CG	ASP	411	29.655	-1.578	44.210	1.00	46.70
١Đ	40	ATOM	834	QD1	ASP	411	29.537	-1.849	45.426	1.00	51.44
	40	ATOM	835	OD2	ASP	411	30.680	-1.861	43.553	1.00	48.79
		ATOM	836	C	ASP	411	30.088	-0.016	41.779	1.00	43.70
		ATOM		· 0	ASP	411	30.933	-0.610	41.107	1.00	38.48
		ATOM	838	N	ARG	412	30.295	1.181	42.321	1.00	46.78
	45							1.905	42.321	1.00	49.97
	43	ATOM	839	CA	ARG	412	31.554				51.28
		ATOM	840	CB	ARG	412	31.601	3.090	43.138	1.00	
		ATOM	841	CG	ARG	412	30.971	4.364	42.614	1.00	54.77
		ATOM	842	CD	ARG	412	31.644	5.580	43.219	1.00	54.61
	7.0	ATOM	843	NE	ARG	412	33.071	5.615	42.912	1.00	56.53
	50	MOTA	844	CZ	ARG	412	33.827	6.708	42.985	1.00	61.90
		ATOM	845	NH1	ARG	412	33.291	7.866	43.356	1.00	63.48
		ATOM	846	NH2	ARG	412	35.120	6.645	42.682	1.00	61.21
		MOTA	847	C	ARG	412	32.771	1.026	42.429	1.00	50.29
		ATOM	848	0	ARG	412	33.628	0.866	41.561	1.00	51.02
	55	MOTA	849	N	ASN	413	32.844	0.469	43.633	1.00	51.94
		ATOM	850	CA	ASN	413	33.969	-0.375	44.021	1.00	53.15
		ATOM	851	CB	ASN	413	33.719	-0.980	45.403	1.00	55.88
		ATOM	852	CG	ASN	413	33.654	0.073	46.496	1.00	57.99
		ATOM	853	OD1	ASN	413	33.697	1.276	46.223	1.00	58.27
	60	ATOM	854	ND2	ASN	413	33.551	-0.375	47.742	1.00	57.90
		ATOM	855	С	ASN	413	34.235	-1.480	43.013	1.00	53.95
		ATOM	856	0	ASN	413	35.386	-1.743	42.659	1.00	53.67
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	5	ATOM	857	N	GLN	414	33.173	-2.129	42.547	1.00	55.33
		MOTA	858	CA	GLN	414	33.326	-3.198	41.573	1.00	55.42
		ATOM	859	CB	GLN	414	31.991	-3.904	41.343	1.00	55.44
		MOTA	860	CG	GLN	414	31.645	-4.933	42.391	1.00	56.07
		ATOM	861	CD	GLN	414	30.203	-5.376	42.336	1.00	57.40
	10	ATOM	862	OE1	GLN	414	29.296	-4.536	42.402	1.00	60.22
	10										
		MOTA	863	NE2	GLN	414	29.973	-6.664	42.199	1.00	57.27
		ATOM	864	C	GLN	414	33.850	-2.630	40.259	1.00	55.51
		MOTA,	865	0	GLN	414	34.654	-3.265	39.578	1.00	56.16
		MOTA	866	N	GLY	415	33.398	-1.430	39.910	1.00	57.07
	15	ATOM	867	CA	GĽY	415	33.849	-0.806	38.680	1.00	58.51
		ATOM	868	С	GLY	415	35.350	-0.582	38.689	1.00	61.10
		ATOM	869	0	GLY	415	36.023	-0.748	37.671	1.00	59.47
		ATOM	870	N	LYS	416	35.877	-0.211	39.851	1.00	62.77
		ATOM	871	CA	LYS	416	37.305	0.041	40.011	1.00	65.49
	20	ATOM	872								
	20			CB	LYS	416	37.634	0.262	41.491	1.00	66.04
		ATOM	873	CG	LYS	416	38.121	1.663	41.823	1.00	68.71
		ATOM	874	CD	LYS	416	37.078	2.439	42.613	1.00	70.98
		ATOM	875	CE	LYS	416	37.404	2.448	44.100	1.00	71.84
		ATOM	876	NZ	LYS	416	36.225	2.079	44.933	1.00	71.95
IJ	25	ATOM	877	C	LYS	416	38.159	-1.105	39.472	1.00	66.41
Ď		ATOM	878	0	LYS	416	39.361	-0.946	39.269	1.00	67.15
		ATOM	879	N	CYS	417	37.538	-2.257	39.238	1.00	67.33
ľŲ		ATOM	880	CA	CYS	417	38.270	-3.414	38.741	1.00	68.16
ίχ̈́		ATOM	881	CB	CYS	417	37.951	-4.642	39.602	1.00	70.88
급	30	ATOM	882	SG	CYS	417	38.592	-4.549	41.301	1.00	76.09
'~ J	50	ATOM	883	C	CYS	417				1.00	67.54
in±							38.015	-3.736	37.270		
144		ATOM	884	0	CYS	417	38.632	-4.653	36.720	1.00	68.48
41		MOTA	885	N	VAL	418	37.111	-2.994	36.631	1.00	64.67
		ATOM	886	CA	VAL	418	36.817	-3.226	35.218	1.00	59.97
لرا	35	MOTA	887	CB	VAL	418	35.326	-2.917	34.879	1.00	59.60
لَدَا		MOTA	888	CG1	VAL	418	34.971	-1.503	35.284	1.00	59.13
الجمة والجواء		A'TOM	889	CG2	VAL	418	35.072	-3.121	33.391	1.00	54.85
		MOTA	890	C .	VAL	418	37.739	-2.362	34.355	1.00	58.37
Q		ATOM	891	0	VAL	418	37.799	-1.140	34.512	1.00	55.44
٠Đ	40	MOTA	892	N	GLU	419	38.463	-3.012	33.450	1.00	56.02
		ATOM	893	CA	GLU	419	39.403	-2.328	32.570	1.00	54.28
		ATOM	894	CB	GLU	419	40.149	-3.351	31.710	1.00	57.57
		ATOM	895	CG	GLU	419	39.385	-3.779		1.00	60.87
		ATOM	896	CD	GTO.		40.179	-4.722	29.584	1.00	63.34
	45										
	43	ATOM	897	OE1	GLU	419	40.432	-5.870	30.011	1.00	64.90
		ATOM	898	OE2	GLU	419	40.546	-4.313	28.462	1.00	63.18
		MOTA	899	C	GLU	419	38.761	-1.281	31.662	1.00	52.05
		MOTA	900	0	GLU	419	37.665	-1.481	31.131	1.00	49.82
		MOTA	901	N	GLY	420	39.465	-0.165	31.491	1.00	49.45
	50	ATOM	902	CA	GLY	420	38.983	0.908	30.642	1.00	46.22
		ATOM	903	С	GLY	420	37.895	1.767	31.254	1.00	44.55
		ATOM	904	0	GLY	420	37.417	2.705	30.619	1.00	42.08
		ATOM	905	N	MET	421	37.503	1.471	32.488	1.00	43.41
		ATOM	906	CA	MET	421	36.449	2.248	33.123	1.00	42.48
	55	ATOM	907	CB	MET	421	35.306	1.327	33.554	1.00	42.34
		ATOM	908	CG	MET	421	34.590	0.635	32.396	1.00	38.22
		ATOM	909	SD	MET	421	32.927	0.102	32.843	1.00	38.56
		ATOM .	910	CE	MET	421	32,003	1.699	32.766	1.00	35.54
	CO	ATOM	911	C	MET	421	36.923	3.059	34.312	1.00	41.64
	60	ATOM	912	0	MET	421	36.113		35.111	1.00	39.77
		ATOM	913	N	VAL	422	38.232	3.256	34.430	1.00	43.42
		MOTA	914	CA	VAL	422	38.757	4.019	35.557	1.00	44.79
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	5	ATOM	915	CB	VAL	422	40.285	4.248	35.433	1.00	46.54
		MOTA	916	CG1	VAL	422	40.595	5.086	34.206	1.00	48.25
		MOTA	917	CG2	VAL	422	40.813	4.920	36.696	1.00	46.24
		ATOM	918	C	VAL	422	38.056	5.372	35.689	1.00	44.09
		ATOM	919	0	VAL	422	37.691	5.783	36.783	1.00	44.12
	10	MOTA	920	N	GLU	423	37.846	6.055	34.570	1.00	42.07
	10		921		GLU	423		7.356	34.616	1.00	40.24
		MOTA		CA			37.192				
		MOTA	922	CB	GLU	423	37.909	8.338	33.684	1.00	44.02
		MOTA	923	CG	GLU	423	39.411	8.467	33.893	1.00	50.04
		MOTA	924	CD	GLU	423	40.096	9.158	32.719	1.00	55,64
	15	MOTA	925	OE1	GLU	423	39.539	10.156	32.205	1.00	56.66
		ATOM	926	OE2	GLU	423	41.188	8.703	32.306	1.00	58.02
		MOTA	927	C	GLU	423	35.704	7.337	34.250	1.00	35.77
		ATOM	928	0	GLU	423	34.881	7.955	34.919	1.00	33.20
		MOTA	929	N	ILE	424	35.345	6.617	33.197	1.00	36.16
	20	MOTA	930	CA	ILE	424	33.949	6.643	32.771	1.00	31.63
		ATOM	931	CB	ILE	424	33.803	6.087	31.347	1.00	33.58
		ATOM	932	CG2	ILE	424	34.639	6.936	30.395	1.00	33.48
		ATOM	933	CG1	ILE	424	34.204	4.617	31.296	1.00	34.46
		ATOM	934	CD1	ILE	424	33.857	3.955	29.978	1.00	34.67
	25	ATOM	935	C	ILE	424	32.890	6.035	33.685	1.00	28.89
	23										
·Ø		MOTA	936	0	ILE	424	31.729	6.443	33.632	1.00	26.49
ľŪ		MOTA	937	N	PHE	425	33.261	5.091	34.542	1.00	29.26
Ü		ATOM	938	CA	PHE	425	32.257	4.520	35.447	1.00	29.87
		AŢOM	939	CB	PHE	425	32.903	3.529	36.423	1.00	31.26
احة الح:	30	MOTA	940	CG	PHE	425	31.948	2.496	36.959	1.00	32.17
		MOTA	941	CD1	PHE	425	31.124	2.783	38.048	1.00	33.70
124		MOTA	942	CD2	PHE	425	31.881	1.230	36.381	1.00	30.64
		MOTA	943	CE1	PHE	425	30.244	1.814	38.563	1.00	32.60
3) 4254		ATOM	944	CE2	PHE	425	31.010	0.256	36.881	1.00	31.55
	35	ATOM	945	CZ	PHE	425	30.189	0.549	37.973	1.00	33.34
IJ		ATOM	946	C	PHE	425	31.594	5.649	36.240	1.00	30.17
لدا		ATOM	947	0	PHE	425	30.368	5.774	36.276	1.00	26.71
		ATOM	948	N	ASP	426	32,415	6.483	36.870	1.00	29.45
Q		ATOM	949	CA	ASP	426	31.893	7.587	37.661	1.00	32.29
ıÐ	40	ATOM	950	СВ	ASP	426	33.031	8.291	38.401	1.00	33.49
	••	ATOM	951	CG	ASP	426	33.455	7.546	39.655	1.00	39.42
		ATOM	952	OD1	ASP	426	32.767		40.038		
		ATOM	952 953	OD2	ASP	426	34.480	7.934	40.056	1.00	39.58
		ATOM							36.806	1.00	
	15		954	C	ASP	426	31.133	8.592			29.62
	45	ATOM	955	0	ASP	426	30.154	9.175	37.257	1.00	31.34
		ATOM	956	N	MET	427		8.797	35.572	1.00	30.69
		ATOM	957	CA	MET	427	30.919	9.736	34.675	1.00	28.63
		ATOM	958	CB	MET	427	31.744	9.912	33.407	1.00	26.83
		ATOM	959	CG	MET	427	33.032	10.680	33.608	1.00.	31.41
	50	MOTA	960	SD	MET	427	33.962	10.783	32.077	1.00	34.87
		ATOM	961	CE	MET	427	35.409	11.753	32,643	1.00	44.60
		ATOM	962	C	MET	427	29.526	9.202	34.324	1.00	28.70
		ATOM	963	0	MET	427	28.536	9.947	34.302	1,00	25.01
		ATOM	964	N	LEU	428	29.451	7.902	34.057	1.00	25.13
	55	MOTA	965	CA	LEU	428	28.173	7.292	33.730	1.00	27.60
		ATOM	966	CB	LEU	428	28.379	5.824	33.332	1.00	28.00
		ATOM	967	CG	LEU	428	29.039	5.682	31.957	1.00	26.99
		ATOM	968	CD1	LEU	428	29.678	4.303	31.782	1.00	27.80
		ATOM	969	CD2	LEU	428	27.995	5.927	30.894	1.00	25.33
	60	ATOM	970	CD2	LEU	428	27.335	7.412		1.00	29.59
	50	ATOM							34.916		
			971	0	LEU	428	26.041	7.743	34.743	1.00	27.07
		MOTA	972	N	LEU	429	27.701	7.147	36.126	1.00	30.40
							239				

		•									
	5	ATOM	973	CA	LEU	429	26.859	7.251	37.323	1.00	30.59
		MOTA	974	CB	LEU	429	27.675	6.884	38.571	1.00	31.76
		ATOM	975	CG	LEU	429	28.078	5.415	38.757	1.00	32.43
		ATOM	976	CD1	LEU	429	28.961	5.264	39.995	1.00	31.60
		ATOM	977	CD2	LEU	429	26.825	4.573	38.903	1.00	34.66
	10	ATOM	978	С	LEU	429	26.319	8.681	37.466	1.00	30.46
		ATOM	979	0	LEU	429	25.143	8.901	37.769	1.00	28.40
		ATOM	980	N	ALA	430	27.193	9.656	37.237	1.00	31.34
		ATOM	981	CA	ALA	430	26.806	11,059	37.332	1.00	29.83
		ATOM	982	CB	ALA	430	28.017	11.951	37.078	1.00	31.29
	15	ATOM	983	C	ALA	430	25.696	11.387	36.344	1.00	31.04
		ATOM	984	0	ALA	430	24.753	12.107	36.674	1.00	36.79
		MOTA	985	N	THR	431	25.802	10.854	35.128	1.00	30.30
		ATOM ·	986	CA	THR	431	24.786	11.105	34.112	1.00	28.81
		MOTA	987	CB	THR	431	25.207	10.533	32.737	1,00	30.55
	20	ATOM	988	0G1	THR	431	26.569	10.893	32.465	1.00	31.88
		MOTA	989	CG2	THR	431	24.321	11.087	31.634	1.00	25.63
		ATOM	990	C	THR	431	23.462	10.481	34.530	1,00	29.49
		MOTA	991	0	THR	431	22.402	11.099	34.397	1.00	26,18
		MOTA	992	N	SER	432	23.520	9.253	35.037	1.00	28.11
/ COS	25	MOTA	993	CA	SER	432	22.308	8.573	35.480	1.00	29.78
		ATOM	994	CB	SER	432	22,639	7.177	36.008	1.00	33,11
Q		ATOM	995	OG	SER	432	21.454	6.412	36.136	1.00	36.92
ij		MOTA	996	С	SER	432	21.651	9.399	36.589	1.00	31.49
D		ATOM	997	0	SER	432	20.433	9.576	36,613	1.00	30.09
	30	MOTA	998	N	ASER	433	22.476	9.901	37.496	0.75	32.09
		MOTA	999	N	BSER.	433	22.474	9.906	37.500	0.25	31.10
خما		ATOM	1000	CA	ASER	433	22.002	10.715	38.605	0.75	35.68
1		ATOM	1001	CA	BSER	433	21.985	10.717	38.608	0.25	32.21
21 1780)		MOTA	1002	CB	ASER	433	23.185	11.097	39.502	0.75	37.18
	35 .	ATOM	1003	CB	BSER	433	23.145	11.104	39.529	0.25	31.45
IJ		ATOM	1004	OG	ASER	433	22.823	12.090	40.443	0,75	44.09
لدا		MOTA	1005	OG	BSER	433	23.785	9.953	40.053	0.25	29.52
		MOTA	1006	C	ASER	433	21.299	11.971	38.091	0.75	35.01
Ü		MOTA	1007	С	BSER	433	21.295	11.976	38.092	0.25	32.88
ŀŪ	40	ATOM	1008	0	ASER	433	20.257	12.373	38.612	0.75	35.34
		MOTA	1009	O	BSER	433	20.264	12.391	38.622	0.25	33.42
		MOTA	1010	N	ARG	434	21.867	12.579	37.054	1.00	33.38
		ATOM	1011	CA	ARG	434	21.300	13.788	36,470	1.00	34.19
		MOTA	1012	CB	ARG	434	22.239	14.354	35.400	1.00	33.89
	45	MOTA	1013		ARG	434	21.670	15.528	34.625	1.00	38.30
		MOTA	1014	CD	ARG	434	21.559	16.787	35.479	1.00	37.91
		ATOM	1015		ARG	434	21.158	17.944	34.680	1.00	37.78
		ATOM	1016	CZ	ARG	434	20.488	18.995	35.149	1.00	41.06
		ATOM	1017	NH1	ARG	434	20.132	19.049	36.428	1.00	40.70
	50	ATOM	1018	NH2	ARG	434	20.175	19.998	34.337	1.00	38.78
		ATOM	1019	C	ARG	434	19.937	13.491	35.873	1.00	33.48
		ATOM	1020	0	ARG	434	18.996	14.266	36.053	1.00	30.54
		MOTA	1021	N	PHE	435	19.831	12.371	35.158	1.00	34.68
		ATOM	1022	CA	PHE	435	18.563	11.963	34.549	1.00	35.02
	55	ATOM	1023	CB	PHE	435	18.727	10.634	33.796	1.00	34.96
		ATOM	1024	CG	PHE	435	19.240	10.779	32.386	1.00	37.63
		MOTA	1025	CD1	PHE	435	19.459	12.035	31.824	1.00	42.03
		ATOM	1026	CD2	PHE	435	19.521	9.649	31.623	1.00	41.24
	60	MOTA		CE1	PHE	435	19.953	12.164	30.521	1.00	43.11
	60	ATOM	1028	CE2	PHE	435	20.016	9.768	30.322	1.00	40.59
		ATOM	1029	CZ	PHE	435	20.233	11.029	29.775	1.00	40.63
		MOTA	1030	е	PHE	435	17.527	11.780	35.657	1.00	35.49

	5	ATOM	1031	Ο.	PHE	435	16.361	12.135	35.496	1.00	34.78
		MOTA	1032	N	arg	436	17.968	11.216	36.777	1.00	30.27
		ATOM	1033	CA	ARG	436	17.094	10.982	37.924	1.00	40.67
		ATOM	1034	CB	ARG	436	17.844	10.215	39.012	1.00	40.70
		ATOM	1035	CG	ARG	436	16.942	9.590	40.068	1.00	44.98
	10	ATOM	1036	CD	ARG	436	17.648	8.459	40.810	1.00	48.09
		ATOM	1037	NE	ARG	436	18.982	8.841	41.275	1.00	50.16
		MOTA	1038	CZ	ARG	436	20.119	8.361	40.777	1.00	52.19
		ATOM	1039	NH1	ARG	436	20.099	7.472	39.790	1.00	49.34
		MOTA	1040	NH2	ARG	436	21.283	8.770	41.266	1.00	51.85
	15	ATOM	1041	C	ARG	436	16.576	12.302	38.493	1.00	40.40
		ATOM	1042	0	ARG	436	15.382	12.458	38,730	1.00	41.49
		ATOM	1043	N	MET	437	17.477	13.252	38.706	1.00	40.92
		atom	1044	CA	MET	437	17.090	14.546	39.245	1.00	41.02
		ATOM	1045	CB	MET	437	18.329	15.427	39.440	1.00	40.29
	20	ATOM	1046	C	MET	437	16.099	15.221	38.299	1.00	40.81
		ATOM	1047	0	MET	437	15.111	15.805	38.734	1,00	42.46
		ATOM	1048	N	MET	438	16.367	15.127	37.001	1.00	39.02
		ATOM	1049	CA	MET	438	15.510	15.732	35.988	1.00	40.11
		ATOM	1050	CB	MET	438	16.237	15.793	34.651	1.00	38.16
, ma	25	ATOM	1051	CG	MET	438	17.352	16.794	34.601	1.00	41.52
		ATOM	1052	SD	MET	438	17.999	16.862	32.943	1.00	43.94
Ü		ATOM	1053	CE	MET	438	16.698	17.748	32.096	1.00	39.96
IJ		ATOM	1054	C	MET	438	14.221	14.964	35.783	1.00	37.72
Ü		ATOM	1055	Ö	MET	438	13.305	15.451	35.125	1.00	36.82
طحا	30	ATOM	1056	N	ASN	439	14.155	13.759	36.337	1.00	38.81
'4	•	ATOM	1057	CA	ASN	439	12.981	12.919	36.174	1.00	40.77
₩.		ATOM	1058	CB	ASN	439	11.762	13.556	36.847	1.00	44.52
'~ J		ATOM	1059	CG	ASN	439	10.566	12.620	36.887	1.00	48.29
\$i		ATOM	1060	OD1	ASN	439	10.721	11.400	36.964	1.00	48.48
1	35	ATOM	1061	ND2	ASN	439	9.365	13.189	36.829	1.00	50.23
ليا		ATOM	1062	C	ASN	439	12.725	12.744	34.677	1.00	39.36
ليرا		ATOM	1063	0	ASN	439	11.637	13.037	34.172	1.00	37.76
		ATOM	1064	N	LEU	440	13.749	12.274	33.972	1,00	37.65
٠Đ		ATOM	1065	CA	LEU	440	13.655	12.052	32.532	1.00	35.22
ŧΩ	40	ATOM	1066	СВ	LEU	440	14.999	11.576	31,987	1.00	34.70
	-	ATOM	1067	CG	LEU	440	15.022	11.467	30.462	1.00	35.45
		ATOM	1068	CD1	LEU	440	14.890	12.862	29.869	1.00	35.24
		ATOM	1069		LEU	440	16.297	10.795	29.999	1.00	35.30
		ATOM	1070	C	LEU	440	12.587	11.024	32.196		36.48
	45	ATOM	1071	0	LEU	440	12.518	9.967	32.826	1.00	37.36
		ATOM	1072	N	GLN	441	11.763	11.328	31.197	1.00	36.82
		ATOM	1073	CA	GLN	441	10.696	10.420	30.785	1.00	38.51
		ATOM	1074	СВ	GLN	441	9.431	11.211	30.443	1.00	38.23
		ATOM	1075	CG	GLN	441	8.912	12.063	31.592	1.00	42.46
	50	ATOM	1076	CD	GLN	441	8.362	11.227	32.729	1.00	44.91
		ATOM	1077		GLN	441	7.268	10.668	32.629	1.00	47.31
		ATOM		NE2	GLN	441	9.119	11.132	33.818		44.06
		ATOM	1079		GLN	441	11.099	9.565		1.00	38.48
		ATOM	1080		GLN	441	11.923	9.976	28.763	1.00	35.80
	55	ATOM	1081		GLY	442	10.500	8.378	29.494	1.00	36.03
		ATOM	1082		GLY	442	10.300	7.468	28.401	1.00	37.72
		ATOM	1083		GLY	442	10.752	8.112	27.043	1.00	36.88
		ATOM	1084		GLY	442	11.381	7.877	26.123	1.00	33.72
		ATOM	1085		GLU	443	9.556	8.925	26.918	1.00	36.59
	60	ATOM	1086		GLU	443	9.269	9.603	25.661	1.00	37.13
		ATOM	1087		GLU	443	7.956	10.379	25.764	1.00	41.57
		ATOM	1088		GLU	443	6.723	9.488	25.879	1.00	47.76
			2000			- -	0.723	J. 400	23.079	2.00	40

	5	MOTA	1089	CD	GLU	443	6.483	9.008	27.302	1.00	53.96
		ATOM	1090	OE1	GĻU	443	5.619	8.123	27.498	1.00	57.66
		ATOM	1091	OE2	GLU	443	7.159	9.515	28.225	1.00	56.13
		ATOM	1092	С	GLU	443	10.408	10.551	25.311	1.00	35.27
		ATOM	1093	O	GLU	443	10.759	10.704	24.145	1.00	33.85
	10	ATOM	1094	N	GLU	444	10.984	11.179	26.331	1.00	32.09
	••	ATOM	1095	CA	GLU	444	12.097	12.095	26.126	1.00	33.92
		MOTA	1096	CB	GLU	444	12.332	12.924	27.388	1.00	34.97
		ATOM	1097	CG	GLU	444	11.169	13.845	27.732	1.00	38.28
			1097	CD	GLU	444	11.383	14.610	29.023	1.00	38.11
	15	ATOM					11.800	13.993	30.026	1.00	39.53
	13	ATOM	1099	OE1	GLU	444					
		MOTA	1100	OE2	GLU	444	11.132	15.834	29.036	1.00	40.77
		ATOM	1101	C	GLU	444	13.356	11.305	25.770	1.00	33.59
		ATOM	1102	0	GLU	444	14.085	11.670	24.842	1.00	33.35
		MOTA	1103	N	PHE	445	13.590	10.215	26.501	1.00	30.68
	20	MOTA	1104	CA	PHE	445	14.753	9.357	26.276	1.00	32,49
		ATOM	1105	CB	PHE	445	14.703	8.139	27.203	1.00	29.35
		MOTA	1106	CG	PHE	445	15.667	7.047	26.828	1.00	30.78
		MOTA	1107	CD1	PHE	445	17.036	7.201	27.030	1.00	28.25
		ATOM	1108	CD2	PHE	445	15.205	5.863	26.266	1.00	30.62
	25	MOTA	1109	CE1	PHE	445	17.933	6.195	26.675	1.00	28.67
Ü		ATOM	1110	CE2	PHE	445	16.095	4.848	25.908	1.00	31.37
نيا: 191		MOTA	1111	CZ	PHE	445	17.460	5.015	26.113	1.00	30.37
IJ		ATOM	1112	C	PHE	445	14.850	8.885	24.829	1.00	31.11
Ø		ATOM	1113	0	PHE	445	15.924	8.947	24.221	1.00	32.20
	30	MOTA	1114	N	VAL	446	13.739	8.415	24.266	1.00	28.63
\		ATOM	1115	CA	VAL	446	13.787	7.943	22.889	1.00	27.94
in a		ATOM	1116	CB	VAL	446	12.478	7.193	22.478	1.00	28.48
100		MOTA	1117	CG1	VAL	446	12.318	5.939	23.343	1.00	29.61
\$!		ATOM	1118	CG2	VAL	446	11.265	8.092	22.607	1.00	27.23
	35	ATOM	1119	C	VAL	446	14.099	9.064	21.900	1.00	27.28
		ATOM	1120	ŏ	VAL	446	14.781	8.837	20.904	1.00	28.07
لدا		ATOM	1121	N	CYS	447	13.619	10.275	22.166	1.00	28.97
		ATOM	1122	CA	CYS	447	13.919	11.394	21.272	1.00	29.14
ΥŌ		ATOM	1123	CB	CYS	447	13.156	12.653	21.693	1.00	28.90
١Đ	40	ATOM	1124	SG	CYS	447	11.389	12.591	21.309	1.00	35.68
	40	ATOM	1125	C	CYS	447	15.420	11.677	21.328	1.00	28.03
		ATOM	1126		CYS	447	16.063	11.885	20.302		29.34
		ATOM	1127		LEU	448	15.969	11.686	22.538	1.00	27.28
		ATOM	1128		LEU	448	17.392	11.938	22.729	1.00	25.30
	45	ATOM		CA	LEU	448	17.733	11.932	24,220	1.00	27.72
	43		1129							1.00	29.54
		ATOM	1130	CG	LEU	448	17.248	13.135	25.040		
		ATOM	1131	CD1	LEU	448	17.807	13.042	26.454	1.00	30.85
		ATOM	1132	CD2	LEU	448	17.688	14.434	24,376	1.00	30.24
	7.0	ATOM	1133	C	LEU	448	18.245	10.902	22.008	1.00	27.62
	50	ATOM	1134	0	LEU	448	19.207	11.252	21.327	1.00	25.10
		ATOM	1135	N	LYS	449	17.905	9.621	22.162		25.16
		ATOM	1136		LYS	449	18.673	8.570	21.506	1.00	27.55
		ATOM	1137	CB	LYS	449	18.135	7,185	21.900	1.00	28.99
		ATOM	1138	CG	LYS	449	19.134	6.052	21.694	1.00	34.70
	55	ATOM	1139	CD	LYS	449	18.737	4.789	22.459	1.00	32.67
		ATOM	1140	CE	LYS	449	17.267	4.419	22.220	1.00	31.87
		ATOM	1141	NZ	LYS	449	17.022	2.967	22.472	1.00	29.14
		ATOM	1142	C	LYS	449	18.626	8.749	19.990	1.00	25.88
		ATOM	1143	0	LYS	449	19.610	8.489	19.296	1.00	25.93
	60	ATOM	1144		SER	450	17.482	9.197	19.480	1.00	26.07
		ATOM	1145		SER	450	17.323		18.052	1.00	27.24
		ATOM	1146		SER	450	15.857	9.705	17.721	1.00	32.24
				-			242			-	

5	MOTA	1147	OG	SER	450	15.098	8.519	17.779	1.00	34.94
	MOTA	1148	C	SER	450	18.176	10.607	17.618	1.00	26.78
	ATOM	1149	0	SER	450	18.763	10.598	16,535	1.00	25.85
	ATOM	1150	N	ILE	451	18.231	11.632	18.463	1.00	26.94
			CA	ILE	451	19.032	12.810	18.155	1.00	26.13
10									1.00	27.72
•										20.53
										29.49
										36.24
										24.88
15										26.96
13										22.72
										21.95
										23.57
20										22.10
20										21.70
										25.30
										23.02
										21,25
										22.83
25										22.05
				LEU						22.06
	ATOM		CG	LEU						22.03
	MOTA	1170	CD1	LEU	453	21.815	6.165	14.107	1.00	24.81
	MOTA	1171	CD2	LEU	453	19.328	6.535	14.156	1.00	24.73
30	MOTA	1172	C	LEU	453	22.092	9.687	14.717	1,00	23.95
	MOTA	1173	0	LEU	453	22.962	9.501	13.860	1.00	24.60
	ATOM	1174	N	LEU	454	21.220	10.687	14.638	1.00	26.72
	MOTA	1175	CA	LEU	454	21.234	11.599	13.494	1.00	26.45
	ATOM	1176	CB	LEU	454	19.852	12.242	13.330	1.00	25.51
35	ATOM	1177	CG	LEU	454	18.737	11.222	13.052	1.00	30.16
			CD1	LEU	454	17.405	11.926	12.955	1,00	28.76
		1179	CD2	LEU	454	19.037	10.478	11.759	1.00	32.59
					454	22.292	12.703	13.552	1,00	28.24
						22.778		12.513	1.00	29.06
40								14.757	1.00	26.56
										26.79
				ASN	455	23.284				26.20
	ATOM	1185	CG	ASN	455	24.174		16.419	1.00	27.26
										30.83
45										27.16
										30.63
										27.69
										30.48
										35.26
50										39.69
50										30.73
										35.56
										33.00
										33.88
55										
"										36.77
										37.0 2
										38.66
										39.12
60										43.81
90										44.25
										44.51
	MOTA	1204	CG2	VAL	458	24.638	15.098	12.013	1.00	50.53
	10 15 20 25	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	ATOM 1148 ATOM 1149 ATOM 1150 ATOM 1151 ATOM 1152 ATOM 1153 ATOM 1154 ATOM 1155 ATOM 1156 15 ATOM 1156 15 ATOM 1158 ATOM 1160 ATOM 1161 20 ATOM 1162 ATOM 1163 ATOM 1164 ATOM 1165 ATOM 1166 ATOM 1167 ATOM 1168 ATOM 1169 ATOM 1170 ATOM 1171 30 ATOM 1171 30 ATOM 1172 ATOM 1176 ATOM 1176 ATOM 1176 ATOM 1178 ATOM 1176 ATOM 1178 ATOM 1178 ATOM 1181 ATOM 1181 40 ATOM 1182 ATOM 1183 ATOM 1184 ATOM 1185 ATOM 1186 45 ATOM 1187 ATOM 1188 ATOM 1189 ATOM 1189 ATOM 1190 ATOM 1191 50 ATOM 1191 51 ATOM 1192 ATOM 1193 ATOM 1196 ATOM 1196 ATOM 1197 ATOM 1198 ATOM 1199 ATOM 1200 ATOM 1201	ATOM 1148 C ATOM 1149 O ATOM 1150 N ATOM 1151 CA 10 ATOM 1152 CB ATOM 1153 CG2 ATOM 1154 CG1 ATOM 1155 CD1 ATOM 1156 C 15 ATOM 1157 O ATOM 1158 N ATOM 1160 CB ATOM 1161 CG2 20 ATOM 1162 CG1 ATOM 1163 CD1 ATOM 1166 N 25 ATOM 1166 N 25 ATOM 1167 CA ATOM 1168 CB ATOM 1169 CG ATOM 1169 CG ATOM 1167 CA ATOM 1168 CB ATOM 1170 CD1 ATOM 1171 CD2 30 ATOM 1171 CD2 30 ATOM 1172 C ATOM 1176 CB ATOM 1178 CD1 ATOM 1179 CD2 ATOM 1180 C ATOM 1180 C ATOM 1181 O 40 ATOM 1181 C ATOM 1182 N ATOM 1183 CA ATOM 1184 CB ATOM 1185 CG ATOM 1186 OD1 45 ATOM 1187 ND2 ATOM 1188 C ATOM 1189 O ATOM 1190 N ATOM 1191 CA ATOM 1190 N ATOM 1191 CA ATOM 1192 CB ATOM 1193 OG ATOM 1194 C ATOM 1195 O ATOM 1197 CA ATOM 1198 C ATOM 1199 O ATOM 1200 N ATOM 1201 CA ATOM 1199 O ATOM 1202 CB ATOM 1202 CB	ATOM 1149 C SER ATOM 1149 O SER ATOM 1150 N ILE ATOM 1151 CA ILE ATOM 1153 CG2 ILE ATOM 1153 CG2 ILE ATOM 1155 CD1 ILE ATOM 1155 CD1 ILE ATOM 1156 C ILE ATOM 1157 O ILE ATOM 1159 CA ILE ATOM 1160 CB ILE ATOM 1160 CB ILE ATOM 1161 CG2 ILE ATOM 1161 CG2 ILE ATOM 1160 CB ILE ATOM 1161 CG2 ILE ATOM 1163 CD1 ILE ATOM 1163 CD1 ILE ATOM 1164 C ILE ATOM 1165 O ILE ATOM 1166 N LEU ATOM 1166 CB LEU ATOM 1167 CA LEU ATOM 1168 CB LEU ATOM 1169 CG LEU ATOM 1170 CD1 LEU ATOM 1170 CD1 LEU ATOM 1171 CD2 LEU ATOM 1171 CD2 LEU ATOM 1171 CD2 LEU ATOM 1172 C LEU ATOM 1173 O LEU ATOM 1175 CA LEU ATOM 1175 CA LEU ATOM 1176 CB LEU ATOM 1176 CB LEU ATOM 1177 CG LEU ATOM 1178 CD1 LEU ATOM 1178 CD1 LEU ATOM 1179 CD2 LEU ATOM 1180 C LEU ATOM 1181 O LEU ATOM 1181 O LEU ATOM 1182 N ASN ATOM 1184 CB ASN ATOM 1185 CG ASN ATOM 1186 CD1 ASN ATOM 1188 C ASN ATOM 1189 O ASN ATOM 1189 O ASN ATOM 1189 O ASN ATOM 1190 N SER ATOM 1191 CA SER ATOM 1191 CA SER ATOM 1192 CB SER ATOM 1193 CG SER ATOM 1194 C SER ATOM 1195 O SER ATOM 1196 N GLY ATOM 1197 CA GLY ATOM 1199 O GLY ATOM 1200 CG1 VAL	ATOM 1149 C SER 450 ATOM 1149 O SER 450 ATOM 1150 N ILE 451 ATOM 1151 CA ILE 451 ATOM 1152 CB ILE 451 ATOM 1153 CG2 ILE 451 ATOM 1155 CD1 ILE 451 ATOM 1155 CD1 ILE 451 ATOM 1156 C ILE 451 ATOM 1157 O ILE 451 ATOM 1158 N ILE 452 ATOM 1159 CA ILE 452 ATOM 1160 CB ILE 452 ATOM 1161 CG2 ILE 452 ATOM 1161 CG2 ILE 452 ATOM 1163 CD1 ILE 452 ATOM 1166 CB ILE 452 ATOM 1167 CD1 ILE 453 ATOM 1166 N LEU 453 ATOM 1166 CB LEU 453 ATOM 1167 CA LEU 453 ATOM 1169 CG LEU 453 ATOM 1170 CD1 LEU 453 ATOM 1171 CD2 LEU 453 ATOM 1171 CD2 LEU 453 ATOM 1172 C LEU 453 ATOM 1174 N LEU 454 ATOM 1175 CA LEU 454 ATOM 1176 CB LEU 454 ATOM 1176 CB LEU 454 ATOM 1177 CG LEU 454 ATOM 1178 CD1 LEU 454 ATOM 1179 CD2 LEU 454 ATOM 1179 CD2 LEU 454 ATOM 1179 CD2 LEU 454 ATOM 1180 C LEU 454 ATOM 1181 C LEU 454 ATOM 1182 N ASN 455 ATOM 1183 CA ASN 455 ATOM 1184 CB ASN 455 ATOM 1185 CG ASN 455 ATOM 1186 CD1 ASN 455 ATOM 1187 ND2 ASN 455 ATOM 1188 C ASN 455 ATOM 1188 C ASN 455 ATOM 1189 C ASN 455 ATOM 1189 C ASN 455 ATOM 1199 N SER 456 ATOM 1199 C SER 456	ATOM 1149 C SER 450 18.176 ATOM 1149 C SER 450 16.763 ATOM 1150 N ILE 451 18.231 ATOM 1151 CA ILE 451 19.032 ATOM 1152 CB ILE 451 19.032 ATOM 1153 CG2 ILE 451 20.019 ATOM 1155 CD1 ILE 451 17.553 ATOM 1156 C ILE 451 17.553 ATOM 1156 C ILE 451 20.489 15 ATOM 1157 O ILE 451 21.161 ATOM 1158 N ILE 452 22.359 ATOM 1159 CA ILE 452 22.359 ATOM 1160 CB ILE 452 22.360 ATOM 1161 CG2 ILE 452 22.660 ATOM 1161 CG2 ILE 452 22.660 ATOM 1163 CD1 ILE 452 22.718 ATOM 1166 C ILE 452 22.768 ATOM 1167 CA ILEU 453 21.779 25 ATOM 1166 N LEU 453 21.984 ATOM 1169 CG ILEU 453 20.712 ATOM 1170 CD1 ILEU 453 22.883 ATOM 1170 CD1 ILEU 453 22.892 ATOM 1171 CD2 ILEU 453 22.892 ATOM 1172 C ILEU 453 22.892 ATOM 1174 N ILEU 454 22.992 ATOM 1175 CA ILEU 453 22.962 ATOM 1176 CB ILEU 453 22.962 ATOM 1177 CD1 ILEU 453 22.893 ATOM 1178 CD1 ILEU 453 22.903 ATOM 1179 CD2 ILEU 453 22.903 ATOM 1176 CB ILEU 454 19.373 ATOM 1176 CB ILEU 454 19.373 ATOM 1177 CG ILEU 454 19.374 ATOM 1178 CD1 ILEU 454 19.037 ATOM 1178 CD2 ILEU 454 19.037 ATOM 1178 CD1 ILEU 454 19.037 ATOM 1178 CD1 ILEU 454 19.037 ATOM 1178 CD1 ILEU 454 19.037 ATOM 1179 CD2 ILEU 454 19.037 ATOM 1180 C ILEU 454 19.037 ATOM 1180 C ILEU 454 19.037 ATOM 1181 C ILEU 454 19.037 ATOM 1182 N ASN 455 22.688 ATOM 1183 CA ASN 455 23.604 ATOM 1186 CB ASN 455 23.604 ATOM 1188 C ASN 455 23.604 ATOM 1188 C ASN 455 23.604 ATOM 1188 C ASN 455 23.604 ATOM 1189 C ASN 455 25.062 ATOM 1190 N SER 456 26.572 50 ATOM 1191 CA SER 456 26.572 51 ATOM 1192 CB SER 456 26.572 52 ATOM 1193 CG SER 456 26.572 53 ATOM 1194 C SER 456 26.572 54 ATOM 1195 C SER 456 26.572 55 ATOM 1196 C GLY 457 28.393 ATOM 1199 C GLY 457 28.393	ATOM 1149 C SER 450 18.176 10.507 ATOM 1150 N ILE 451 18.231 11.632 ATOM 1151 CA ILE 451 19.032 12.810 ATOM 1153 CG2 ILE 451 18.950 13.850 ATOM 1153 CG2 ILE 451 20.019 14.929 ATOM 1155 CD1 ILE 451 17.553 14.475 ATOM 1155 CD1 ILE 451 17.553 14.475 ATOM 1156 C ILE 451 17.553 14.475 ATOM 1157 CD ILE 451 17.577 15.473 ATOM 1158 N ILE 451 20.019 12.381 15 ATOM 1157 C ILE 451 17.577 15.473 ATOM 1158 N ILE 452 20.977 11.582 ATOM 1159 CA ILE 451 21.161 12.771 ATOM 1160 CB ILE 452 22.359 11.120 ATOM 1161 CG2 ILE 452 22.359 11.120 ATOM 1161 CG2 ILE 452 22.660 10.155 ATOM 1162 CG1 ILE 452 22.768 10.060 ATOM 1163 CG1 ILE 452 22.768 10.060 ATOM 1164 C ILE 452 22.768 10.060 ATOM 1166 N LEU 452 22.768 10.069 ATOM 1166 N LEU 452 22.768 10.060 ATOM 1167 CA LEU 453 21.779 9.497 ATOM 1168 CB LEU 453 21.779 9.497 ATOM 1169 CG LEU 453 20.843 7.764 ATOM 1169 CG LEU 453 20.843 7.764 ATOM 1169 CG LEU 453 20.912 9.487 ATOM 1170 CD1 LEU 453 20.912 9.687 ATOM 1170 CD1 LEU 453 20.912 9.687 ATOM 1171 CD2 LEU 453 20.912 9.501 ATOM 1175 CA LEU 453 22.962 9.501 ATOM 1176 CB LEU 454 19.328 6.535 ATOM 1177 CG LEU 454 19.328 6.535 ATOM 1178 CD1 LEU 454 19.328 6.535 ATOM 1178 CD1 LEU 454 19.329 10.687 ATOM 1178 CD1 LEU 454 19.852 12.242 35 ATOM 1176 CB LEU 454 19.852 12.242 36 ATOM 1177 CG LEU 454 19.373 11.222 ATOM 1178 CD1 LEU 454 19.373 11.222 ATOM 1178 CD1 LEU 454 19.373 11.224 ATOM 1179 CD2 LEU 454 19.037 10.478 ATOM 1179 CD2 LEU 454 19.037 10.478 ATOM 1180 C LEU 454 22.278 13.148 40 ATOM 1180 C LEU 454 22.278 13.149 40 ATOM 1181 O LEU 454 22.278 13.149 41 ATOM 1186 CD ASN 455 23.604 14.236 ATOM 1187 CD ASN 455 24.171 17.134 45 ATOM 1188 C ASN 455 25.662 12.569 ATOM 1189 O ASN 455 25.662 12.569 ATOM 1190 N SER 456 26.572 11.928 50 ATOM 1191 CA SER 456 26.572 11.928 51 ATOM 1192 CB SER 456 26.572 11.928 52 ATOM 1194 C SER 456 26.639 10.093 ATOM 1195 O SER 456 26.639 10.093 ATOM 1196 N SER 456 26.697 13.995 ATOM 1197 CA GLY 457 28.393 12.189 40 ATOM 1198 C GLY 457 27.876 13.017 ATOM 1199 N SER 456 26.667 13.995 ATOM 1190 N SER 456 2	ATOM 1148 C SER 450 18.176 10.607 17.618 ATOM 1149 O SER 450 18.763 10.598 16.535 16.763 10.598 16.535 16.763 10.598 16.535 16.763 10.598 16.535 16.763 10.598 16.535 16.763 10.598 16.535 16.763 10.598 16.535 16.763 10.598 16.535 16.763 10.598 16.535 16.763 10.598 16.535 16.763 10.598 16.535 16.763 10.598 16.535 16.763 10.598 16.535 16.763 10.598 16.535 16.763 10.598 16.535 10.598 16.535 16.763 10.598 16.535 10.598 10.598 16.535 10.598 10.598 16.535 10.598 16.535 10.598 16.535 10.598 16.535 10.598 10.598 16.535 10.5	ATOM 1148 C SER 450 18.176 10.607 17.618 1.00 ATOM 1149 O SER 450 18.763 10.598 16.535 1.00 ATOM 1151 CA ILE 451 18.231 11.632 18.463 1.00 ATOM 1152 CB ILE 451 18.950 13.850 19.291 1.00 ATOM 1153 CG2 ILE 451 18.950 13.850 19.291 1.00 ATOM 1155 CB ILE 451 17.557 14.475 19.322 10.00 ATOM 1155 CD1 ILE 451 17.557 14.475 19.322 10.00 ATOM 1155 CD1 ILE 451 17.557 14.475 19.322 10.00 ATOM 1155 CD1 ILE 451 17.557 15.473 20.447 1.00 ATOM 1155 CD1 ILE 451 17.557 15.473 20.447 1.00 ATOM 1155 CD ILE 451 20.489 12.391 17.989 1.00 ATOM 1156 C ILE 451 21.161 12.771 17.034 1.00 ATOM 1157 O ILE 452 20.977 11.582 18.931 1.00 ATOM 1158 N ILE 452 20.977 11.582 18.931 1.00 ATOM 1160 CB ILE 452 22.359 11.200 18.880 1.00 ATOM 1161 CG2 ILE 452 22.359 11.200 18.880 1.00 ATOM 1161 CG2 ILE 452 22.656 10.415 20.250 1.00 ATOM 1163 CD1 ILE 452 22.768 10.049 21.371 1.00 ATOM 1165 C ILE 452 22.656 10.419 17.557 1.00 ATOM 1166 C ILE 452 22.656 10.419 17.557 1.00 ATOM 1166 C ILE 452 22.656 10.419 17.557 1.00 ATOM 1166 C ILE 452 22.656 10.419 17.557 1.00 ATOM 1166 C ILE 452 22.656 10.419 17.557 1.00 ATOM 1167 CA LEU 453 21.779 9.497 17.173 1.00 ATOM 1168 CB LEU 453 21.779 9.497 17.173 1.00 ATOM 1167 CA LEU 453 21.799 9.497 17.173 1.00 ATOM 1167 CA LEU 453 21.799 9.497 17.173 1.00 ATOM 1167 CA LEU 453 20.843 7.764 15.733 1.00 ATOM 1167 CA LEU 453 20.843 7.764 15.733 1.00 ATOM 1167 CA LEU 453 22.962 9.667 14.717 1.00 ATOM 1170 CD1 LEU 453 22.962 9.667 14.717 1.00 ATOM 1171 CD2 LEU 453 12.815 6.165 14.07 1.00 ATOM 1173 C LEU 454 18.322 9.02 9.667 14.717 1.00 ATOM 1174 N LEU 454 21.220 10.667 14.638 1.00 ATOM 1177 CA LEU 454 18.33 19.328 6.535 14.156 1.00 ATOM 1178 CA LEU 454 19.037 10.478 11.599 13.494 1.00 ATOM 1179 CA LEU 454 19.037 10.478 11.799 1.00 ATOM 1179 CA LEU 454 19.037 10.478 11.799 1.00 ATOM 1179 CA LEU 454 18.33 19.328 6.535 14.157 1.00 ATOM 1180 C LEU 454 19.037 10.478 11.799 1.00 ATOM 1180 C LEU 454 19.037 10.478 11.799 1.00 ATOM 1180 C ASN 455 22.962 13.382 14.994 1.00 ATOM 1180 C ASN 455 22.688 13.146 14.757 1.00 ATOM 1180 C ASN 4

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	5	ATOM	1205	С	VAL	458	27.472	15.801	9.817	1.00	46.72
		ATOM	1206	0	VAL	458	27.391	16.265	8.681	1.00	47.08
		MOTA	1207	N	TYR	459	28.432	16.144	10.670	1.00	50.74
		ATOM	1208	CA	TYR	459	29.456	17.114	10.301	1.00	55.43
		MOTA	1209	CB	TYR	459	29.647	18.129	11.433	1.00	56.62
	10	ATOM .	1210	CG	TYR	459	28.375	18.870	11.781	1.00	59.34
	••	ATOM	1211	CD1	TYR	459	28.094	19.229	13.095	1.00	60.73
		ATOM	1212	CE1	TYR	459	26.900	19.867	13.429	1.00	62.14
						459		19.175	10.795	1.00	62.16
		ATOM	1213	CD2	TYR		27.430				
	1.5	ATOM	1214	CE2	TYR	459	26.234	19.812	11.118	1.00	63.83
	15	ATOM	1215	CZ	TYR	459	25.976	20.154	12.437	1.00	62.88
		MOTA	1216	OH	TYR	459	24.790	20.764	12.767	1.00	62.56
		MOTA	1217	C	TYR	459	30.791	16.489	9.928	1.00	57.21
		ATOM	1218	0	TYR	459	31.793	17.189	9.798	1.00	56.86
		MOTA	1219	N	THR	460	30.800	15.173	9.750	1.00	59.22
	20	ATOM	1220	CA	THR	460	32.018	14.474	9.366	1.00	62.25
		MOTA	1221	СВ	THR	460	32.502	13.531	10.499	1.00	63.07
		ATOM	1222	OG1	THR	460	33.474	12.613	9.983	1.00	67.80
		ATOM	1223	CG2	THR	460	31.344	12.759	11.084	1.00	60.23
		ATOM	1224	C	THR	460	31.759	13.678	8.086	1.00	63.54
	25	ATOM	1225	0	THR	460	32.457	12.708	7.782	1.00	63.91
	23										65.06
D		ATOM	1226	N	PHE	461	30.758	14.113	7.326	1.00	·
ĪŪ		ATOM	1227	CA	PHE	461	30.395	13.446	6.080	1.00	67.00
Ü		MOTA	1228	CB	PHE	461	29.052	13.975	5.563	1.00	66.48
ab		ATOM	1229	CG	PHE	461	27.867	13.147	5.991	1.00	66.30
<u>.</u>	30	ATOM	1230	CD1	PHE	461	26.657	13.754	6.312	1,00	65.58
		MOTA	1231	CD2	PHE	461	27.963	11.760	6.085	1.00	66.41
		ATOM	1232	CEl	PHE	461	25.562	12.996	6.723	1.00	65.45
` ~		ATOM	1233	CE2	PHE	461	26.872	10.994	6.494	1.00	66.83
ž!		ATOM	1234	CZ	PHE	461	25.670	11.616	6.814	1.00	65.12
	35	ATOM	1235	C	PHE	461	31.463	13.604	5.004	1.00	68.38
IJ		ATOM	1236	0	PHE	461	32.181	14.606	4.962	1.00	68.98
لدا		ATOM	1237	N	LEU	462	31.542	12.601	4.132	1.00	69.57
		ATOM	1238	CA	LEU	462	32.511	12.545	3.039	1.00	71.68
ı,C		ATOM	1239	CB	LEU	462	32.080	11.475	2.030	1.00	71.00
١ <u>Ö</u>	40			C		462		13.856	2.304	1.00	72.40
	40	ATOM	1240		LEU		32.810				
		ATOM	1241	0	LEU	462	33.725	14.590	2.680	1.00	73.45
		MOTA	1242	N	SER	463	32.043	14.141	1.253	1.00	73.22
		ATOM	1243	CA	SER	463	32.262	15.343	0.449	1.00	72.61
		MOTA	1244	CB	SER	463	32.544	14.942	-1.005	1,00	73.38
	45	ATOM	1245	C	SER	463	31.126	16.362	0.491	1.00	71.17
		MOTA	1246	Q	SER	463	30.455	16.528	1.511	1.00	72.05
		ATOM	1247	N	SER	464	30.932	17.049	-0.633	1.00	68.86
		ATOM	1248	CA	SER	464	29.892	18.063	-0.759	1.00	66.06
		ATOM	1249	CB	SER	464	30.514	19.457	-0.704	1.00	66.26
	50	ATOM	1250	C	SER	464	29.108	17.887	-2.060	1.00	63.72
	-	ATOM	1251	Ö	SER	464	28.657	18.862	-2.662	1.00	62.88
		ATOM	1252	N	THR	465	28.954	16.638	-2.493	1.00	60.93
									-3.709	1.00	57.47
		MOTA	1253	CA	THR	465	28.205	16.343			
	e e	ATOM	1254	CB	THR	465	28.185	14.824	-4.004	1.00	57.80
	55	ATOM	1255	0G1	THR	465	27.525	14.135	-2.934	1.00	54.75
		ATOM	1256	CG2	THR	465	29.606	14.287	-4.149	1.00	57.49
		MOTA	1257	С	THR	465	26.767	16.824	-3.523	1.00	54.93
		ATOM	1258	0	THR	465	26.349	17.129	-2.407	1.00	54.26
		ATOM	1259	N	LEU	466	26.013	16.892	-4.614	1.00	51.85
	60	ATOM	1260	CA	LEU	466	24.625	17.330	-4.550	1.00	49.25
		MOTA	1261	CB	LEU	466	24.013	17.349	-5.956	1.00	48.74
		ATOM	1262	CG	LEU	466	22.953	18.415	-6.253	1.00	48.72
				_		-	244	_			

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	5	ATOM	1263	CD1	LEU	466	22.156	18.002	-7.482	1.00	48.32
		ATOM	1264	CD2	LEU	466	22.033	18.594	-5.057	1.00	48.14
		ATOM	1265	Ċ	LEU	466	23.817	16.397	-3.650	1.00	48.16
		ATOM	1266	0	LEU	466	22.961	16.845	-2.883	1.00	45.96
		ATOM	1267	N	LYS	467	24.093	15.099	-3.750	1.00	46.47
	10	ATOM	1268	CA	LYS	467	23.399	14.100	-2.947	1.00	47.45
		ATOM	1269	CB	LYS	467	23.802	12.693	-3.395	1.00	49.38
		ATOM	1270	CG	LYS	467	22.829	11.602	-2.974	1.00	52.70
		ATOM	1271	CD	LYS	467	23.561	10.301	-2.682	1.00	56.48
		ATOM	1272	CE	LYS	467	23.105	9.180	-3.604	1.00	59.54
	15	MOTA	1273	NZ	LYS	467	24.150	8.117	-3.732	1,00	61.22
	13	ATOM	1274	e	LYS	467	23.738	14.284	-1.472	1.00	46.89
		ATOM	1275	0	LYS	467	22.884	14.108	-0.604	1.00	46.06
		ATOM	1276	И	SER	468	24.989	14.644	-1.202	1.00	45.82
		ATOM	1277	CA	SER	468	25.457	14.854	0.160	1.00	46.82
	20	ATOM			SER	468	26.976	15.050	0.173	1.00	47.85
	20		1278	CB		468		15.537	1.435	1.00	55.73
		ATOM	1279	C OG	SER		27.407		0.790	-	44.24
		ATOM	1280		SER	468	24.778	16.063		1.00	42.98
		ATOM	1281	0	SER	468	24.473	16.062 17.100	1.983	1.00	
	25	ATOM	1282	N	LEU	469	24.547		-0.011	1.00	42.33 40.42
	23	ATOM	1283	CA	LEU	469	23.890	18.301	0.486 -0.545	1.00	44.47
·D		ATOM	1284	CB	LEU	469	24.002 25.438	19.427		1.00	
IU		ATOM	1285	CG	LEU	469		19.874	-0.849		46.70 46.70
Ø		ATOM	1286	CD1	LEU	469	25.514	20.477	-2.246	1.00	
串	30	ATOM	1287 1288	CD2	LEU	469 469	25.890	20.883	0.199 0.786	1.00	47.32 39.06
· wall	30	ATOM		C	LEU		22.423	17.996	1.760	1.00	34.97
ė		MOTA MOTA	1289 1290	N O	LEU GLU	469 470	21.856 21.814	18.505 17.151	-0.046	1.00	35.46
·•[470			0.145	1.00	34.38
Ħ		MOTA MOTA	1291 1292	CA CB	GLU GLU	470	20.418 19.914	16.768 15.963	-1.052	1.00	38.02
	35	ATOM	1292	CG	GLU	470	19.772	16.773	-2.329	1.00	42.67
ليا	33	MOTA	1293	CD	GLU	470	19.772	15.773	-3.509	1.00	48.30
لدا		ATOM	1295	OE1	GLU	470	19.539	14.716	-3.538	1.00	50.53
		ATOM	1296	OE2	GLU	470	18.666	16.463	-4.412	1.00	51.06
Q		MOTA	1297	C	GLU	470	20.290	15.916	1.403	1.00	34.37
Ü	40	ATOM	1298	0	GLU	470	19.321	16.035	2,157	1.00	32.60
	40	ATOM	1299	N	GLU	471	21.274	15.046	1.606	1.00	34.66
		ATOM	1300		GLU	471	21.309	14.162	2.766		35.68
		ATOM	1301		GLU	471	22.515	13.222	2.671	1.00	34.57
		ATOM	1302	CG	GLU	471	22.315	12.122	1.614		37.98
	45	ATOM	1302	CD		471	21.476	10.989	2.063	1.00	39.79
	43	ATOM	1303		GLU	471	20.268	11.027	1.743	1.00	41.12
		ATOM	1305		GLU	471	21.974	10.061	2.737	1.00	32.11
		ATOM	1305		GLU	471	21.374	14.983	4.052	1.00	34.79
		ATOM	1300		GLU	471	20.596	14.793	4.969	1.00	32.80
	50	ATOM	1307	Ŋ	LYS	472	20.358	15.898	4.112	1.00	33.93
	50	ATOM	1309		LYS	472	22.518	16.739	5.291	1.00	35.58
		ATOM		CB	LYS	472	23.683	17.710	5.097	1.00	39.11
		ATOM		CG	LYS	472	25.050	17.710	5.138	1.00	41.47
		ATOM	1312	CD	LYS	472	26.080	17.957	5.794	1.00	46.97
	55	ATOM	1313	CE	LYS	472	27.445	17.286	5.862	1.00	48.40
	JJ	ATOM	1314	NZ	LYS	472	27.850	16.702	4.547	1.00	51.55
		ATOM	1315	C	LYS	472	21.237	17.523	5.582	1.00	34.78
		ATOM		0	LYS	472	20.795	17.607	6.724	1.00	33.95
		ATOM	1317		ASP	472	20.793	18.097	4.545	1.00	33.47
	60	ATOM		CA	ASP	473	19.420	18.865	4.720	1.00	34.63
		ATOM	1319		ASP	473	18.923	19.404	3.380	1.00	37.21
		ATOM	1320	CG	ASP	473	17.654	20.221	3.522	1.00	43.24
											

	5	ATOM	1321	OD1	ASP	473	16.559	19.687	3.230	1.00	45.20
		atom	1322	OD2	ASP	473	17.750	21.396	3.932	1.00	45.59
		MOTA	1323	C	ASP	473	18.339	17.998	5.338	1.00	32.93
		ATOM	1324	0	ASP	473	17.642	18.416	6.264	1.00	32.87
		ATOM	1325	N	HIS	474.	18.199	16.784	4.827	1.00	32.74
	10	ATOM	1326	CA	HIS	474	17.185	15.882	5.343	1.60	32.21
		MOTA	1327	CB	HIS	474	17.185	14.575	4.568	1.00	32.79
		MOTA	1328	CG	HIS	474	16.047	13.675	4.924	1.00	36.22
		ATOM	1329	CD2	HIS	474	14.711	13.813	4.750	1,00	38.33
		ATOM	1330	ND1	HIS	474	16.227	12.456	5.542	1.00	38.97
	15	ATOM	1331	CE1	HIS	474	15.053	11.883	5.732	1.00	37.99
	13	ATOM	1332	NE2	HIS	474	14.116	12.686	5.261	1.00	37.43
		MOTA	1332	C	HIS	474	17.403	15.573	6.815	1.00	29.74
									7.596	1.00	29.90
		MOTA	1334	0	HIS	474	16.460	15.543			
	20	MOTA	1335	N	ILE	475	18.653	15.326	7.185	1.00	27.80
	20	ATOM	1336	CA	ILE	475	18.971	15.014	8.571	1.00	25.61
		MOTA	1337	CB	ILE	475	20.478	14.708	8.720	1.00	25.39
		ATOM	1338	CG2	ILE	475	20.877	14.713	10.193	1.00	27.17
		MOTA	1339	CG1	ILE	475	20.787	13.341	8.092	1.00	26.17
		ATOM	1340	CD1	ILE	475	22.258	13.071	7.849	1.60	27.07
٦	25	atom	1341	C	ILE	475	18.576	16.201	9.460	1.00	27.91
۵		MOTA	1342	0	ILE	475	17.928	16,038	10.485	1.00	29.16
19.1		MOTA	1343	N	HIS	476	18.956	17.404	9.054	1.00	29.41
IU		MOTA	1344	CA	HIS	476	18.621	18.575	9.846	1.00	29.73
Ü		ATOM	1345	CB	HIS	476	19.342	19.796	9.281	1.00	32.27
1-4	30	MOTA	1346	CG	HIS	476	20.777	19.867	9.699	1.00	39.44
		ATOM	1347	CD2	HIS	476	21.355	19.707	10.915	1.00	39.81
-		MOTA	1348	ND1	HIS	476	21.809	20.067	8,808	1.00	39.79
		ATOM	1349	CE1	HIS	476	22.959	20.027	9.456	1.00	39.98
41		ATOM	1350	NE2	HIS	476	22.712	19,809	10.735	1.00	40.26
	35	ATOM	1351	C	HIS	476	17.120	18.810	9.948	1.00	31.40
J.J		ATOM	1352		HIS	476	16.636	19.336	10.951	1.00	29.79
لدا		ATOM	1353	N		477	16.374	18.396	8.929	1.00	31.82
		ATOM.	1354	CA	ARG	477	14.929	18.570	8.956	1.00	31.53
Ü		ATOM	1355	CB	ARG	477	14.343	18.376	7.557	1.00	34.95
· 💆	40	MOTA	1356	CG	ARG	477	14.425	19,627	6.700	1.00	40.46
		ATOM	1357	CD	ARG	477	13.698	19.445	5.370	1.00	45.22
		ATOM	1358	NE	ARG	477	14.107	20.456	4.399	1.00	53.05
		ATOM		CZ	ARG	477	13.647	21.705	4.376	1.00	55.89
		ATOM	1360	NH1	ARG	477	12.756	22.106	5.274	1.00	56.17
	45	ATOM	1361	NH2	ARG	477	14.084	22.558	3.457	1.00	59.49
	43	ATOM	1362	C	ARG	477	14.310	17.582	9.931	1.00	30.70
		ATOM	1363	0	ARG	477	13.360	17.903	10.649	1.00	30.24
		ATOM	1364	N	VAL	478	14.863	16.375	9.972	1,00	29.67
		ATOM	1365	CA	VAL	478	14.351	15,369	10.887	1.00	29.68
	50					478			10.5575	1.00	32.01
	30	ATOM	1366	CB	VAL		14.937	13.975	11.609		
		ATOM		CG1	VAL	478	14.461	12,973		1.00	32.93
		MOTA	1368	CG2	VAL	478	14.506	13.528	9.169	1.00	31.00
		ATOM		C	VAL	478	14.696	15.774	12.316	1.00	29.81
	<i></i>	ATOM	1370		VAL	478	13.860	15.677	13.220	1.00	30.25
	55	ATOM		N	LEU	479	15.929	16.232	12.516	1.00	28.81
		ATOM		CA	LEU	479	16.360	16.674	13.836	1.00	28.74
		ATOM	1373	CB	LEU	479	17.799	17.210	13.779	1.00	26.65
		ATOM .	1374	CG	LEU	479	18.910	16.152	13.853	1.00	26.05
	<i>-</i> 0	ATOM	1375	CD1	LEU	479	20.231	16.772	13.395	1.00	25.81
	60	ATOM	1376		LEU	479	19.028	15.603	15.277	1.00	25.34
		ATOM	1377		LEU	479	15.411	17.777	14.313	1.00	29.54
		ATOM	1378	0	LEU	479	14.997	17.786	15.472	1.00	29.00

	5	MOTA	1379	N	ASP	480	15.076	18.703	13.415	1.00	31.52
		ATOM	1380	CA	ASP	480	14.162	19.800	13.741	1.00	33.84
		ATOM	1381	CB	ASP	480	13.943	20.712	12.528	1.00	34.37
		ATOM	1382	CG	ASP	480	15.055	21.743	12.345	1.00	36.26
		MOTA	1383	OD1	ASP	480	15.119	22.354	11.257	1.00	36.56
	10	MOTA	1384	OD2	ASP	480	15.860	21.951	13.274	1.00	34.19
		ATOM	1385	C	ASP	480	12.818	19.222	14.174	1.00	33.48
		ATOM	1386	ō	ASP	480	12.186	19.724	15.105	1.00	33.89
		ATOM	1387	N	LYS	481	12.379	18.161	13.498	1.00	33.90
		ATOM	1388	CA	LYS	481	11.106	17.536	13.839	1.00	32.97
	15	ATOM	1389	CB	LYS	481	10.719	16.489	12.784	1.00	34.66
	1.5	ATOM	1390	C	LYS	481	11.164	16.895	15.225	1.00	33.57
		ATOM	1391	0	LYS	481	10.167	16.869	15.943	1.00	35.37
									15.607	1.00	32.71
		MOTA	1392	N	ILE	482	12.328	16.377			
	20	MOTA	1393	CA	ILE	482	12.457	15.764	16.922	1.00	31.60
	20	ATOM	1394	CB	ILE	482	13.743	14.913	17.028	1.00	32.65
		MOTA	1395	CG2	ILE	482	13.877	14.338	18.430	1.00	32.50
		ATOM	1396	CG1	ILE	482	13.697	13.785	15.995		32.72
		ATOM	1397	CD1	ILE	482	14.978	12.969	15.908	1.00	33.37
	25	ATOM	1398	C	ILE	482	12.456	16.853	17.994	1.00	31.69
(J	25	ATOM	1399	0	ILE	482	11.946	16.649	19.097	1.00	29.98
Ð		ATOM	1400	N	THR	483	13.027	18.012	17.679	1.00	31.33
ľŪ		ATOM	1401	CA	THR	483	13.022	19.109	18.644	1.00	31.71
Œ		ATOM	1402	СВ	THR	483	13.756	20.351	18.109	1.00	32.92
	20	MOTA	1403	OG1	THR	483	15.111	20.012	17.788	1.00	29.99
	30	MOTA	1404	CG2	THR	483	13.756	21.452	19.160	1.00	30.47
4		ATOM	1405	C	THR	483	11.559	19.483	18.920	1.00	32.85
1		MOTA	1406	0	THR	483	11.146	19.598	20.070	1.00	31.83
21		ATOM	1407	N	ASP	484	10.785	19.656	17.851	1.00	31.91
Ü	2.5	MOTA	1408	CA	ASP	484	9.369	20.003	17.965	1.00	34.15
	35	ATOM	1409	CB	ASP	484	8.708	20.013	16.591	1.00	37.41
L		ATOM	1410	CG	ASP	484	9,270	21.080	15.680	1.00	42.02
		ATOM	1411	OD1	ASP	484	9.871	22.045	16.198	1.00	43.26
ō		ATOM	1412	OD2	ASP	484	9.106	20.952	14.445	1.00	42.49
Ü	40	ATOM	1413	C	ASP	484	8.657	18.985	18.840	1.00	33.16
	40	ATOM	1414	0	ASP	484	7.830	19.339	19.676	1.00	34.86
		ATOM	1415	N	THR	485	8.996	17.715	18.646	1.00	33.91
		ATOM	1416	CA	THR	485	8.396	16.635	19.414	1.00	34.41
		ATOM	1417	CB	THR	485	8.875	15.268	18.885	1.00	33.58
	46	ATOM	1418	OG1	THR	485	8.400	15.094	17.542	1.00	37.04
	45	ATOM	1419	CG2	THR	485	8.347	14.138	19.751	1.00	30.89
		ATOM	1420	C	THR	485	8.708	16.757	20.903	1.00	35.15
		ATOM	1421	0	THR	485	7.818	16.600	21.744	1.00	31,99
		ATOM	1422	Ŋ	LEU	486	9.966	17.046	21.229	1.00	33.77
		ATOM	1423	CA	LEU	486	10.368	17.192	22.621	1.00	34.31
	50	ATOM	1424	CB	LEU	486	11.879	17.448	22.721	1.00	32.00
		ATOM	1425	CG	LEU	486	12.776	16.201	22.754	1.00	34.99
		ATOM	1426	CD1	LEU	486	14.233	16.613	22.521	1.00	32.65
		ATOM	1427	CD2	LEU	486	12.635	15.481	24.105	1.00	29.90
		ATOM	1428	C	LEU	486	9.597	18.348	23.256	1.00	34.87
	55	MOTA	1429	0	LEU	486	9.078	18.225	24.362	1.00	35.85
	•	MOTA	1430	N	ILE	487	9.513	19.469	22.548	1.00	35.59
		ATOM	1431	CA	ILE	487	8.787	20.625	23,064	1.00	36.79
		ATOM	1432	CB	ILE	487	8.890	21.826	22.095	1.00	37.32
		MOTA	1433	CG2	ILE	487	7.833	22.884	22.443	1.00	40.19
	60	MOTA	1434	CG1	ILE	487	10.292	22.443	22.181	1.00	36.00
		MOTA	1435	CD1	ILE	487	10.635	23.041	23.544	1.00	33.58
		MOTA	1436	С	ILE	487	7.315	20.257	23.276	1.00	38.56
							0.45				

	5	MOTA	1437	0	ILE	487	6.708	20.628	24.282	1.00	38.52
		ATOM	1438	N	HIS	488	6.749	19.521	22.326	1.00	40.33
		ATOM	1439	CA	HIS	488	5.357	19.096	22.427	1.00	42.29
		ATOM	1440	CB	HIS	488	4.962	18.282	21.197	1.00	44.26
		ATOM	1441	CG	HIS	488	3.612	17.647	21.305	1.00	47.75
	10	ATOM	1442	CD2	HIS	488	2.369	18.175	21.214	1.00	47.46
	••	ATOM	1443	ND1	HIS	488	3.440	16.298	21.534	1.00	51.09
							2.148	16.023	21.534	1.00	51.15
		MOTA	1444	CE1	HIS	488					
		MOTA	1445	NE2	HIS	488	1.477	17.144	21.385	1.00	50.22
•		MOTA	1446	С	HIS	488	5.154	18.254	23.685	1.00	42.55
	15	MOTA	1447	0	HIS	488	4.233	18.498	24.467		43.02
		MOTA	1448	N	LEU	489	6.022	17.266	23.879	1.00	39.91
		MOTA	1449	CA	LEU	489	5.936	16.399	25.048	1.00	39.93
		MOTA	1,450	CB	LEU	489	7.087	15.396	25.048	1.00	38.83
		MOTA	1451	CG	LEU	489	6.961	14.242	24.056	1.00	39.31
	20	ATOM	1452	CD1	LEU	489	8.259	13.456	24.027	1.00	39.01
		ATOM	1453	CD2	LEU	489	5.799	13.345	24.459	1.00	41.98
		ATOM	1454	С	LEU	489	5.973	17.203	26.339	1.00	40.24
		ATOM	1455	ō	LEU	489	5.267	16.888	27.298	1.00	38.72
		ATOM	1456	N	MET	490	6.798	18.246	26.353	1.00	39.94
	25	MOTA	1457	CA	MET	490	6.939	19.102	27,522	1.00	41.50
	23						8.208	19.102		1.00	39.15
Ð.		ATOM	1458	CB	MET	490			27.394		
เป็		ATOM	1459	CG	MET	490	9.495	19.169	27.608	1.00	41.69
Ü		ATOM	1460	SD	MET	490	10.978	20.106	27.161	1.00	35.76
		ATOM	1461	CE	MET	490	12.178	18.775	27.056	1.00	39.22
٠	30	ATOM	1462	С	MET	490	5.718	20.004	27.717	1,00	42.33
ing A		MOTA	1463	0	MET	490	5.296	20.258	28.848	1.00	41.09
		MOTA	1464	N	ALA	491	5.162	20.498	26.616	1.00	43.15
100		ATOM	1465	CA	ALA	491	3.983	21.351	26.693	1.00	43.79
ii		MOTA	1466	CB	ALA	491	3.622	21.879	25.311	1.00	43.93
	35	ATOM	1467	С	ALA	491	2.841	20.510	27.251	1.00	46.16
زرا		ATOM	1468	0	ALA	491	2.073	20.967	28.095	1.00	44.69
ليا		ATOM	1469	N	LYS	492	2.752	19.268	26.783	1.00	46.29
		ATOM	1470	CA	LYS	492	1.711	18.351	27.222	1.00	49,90
Ð		ATOM	1471	CB	LYS	492	1,772	17.053	26.411	1.00	50.03
Ð	40	ATOM	1472	CG	LYS	492	1.087	17.135	25.062	1.00	53.81
_	10	ATOM	1473	CD	LYS	492	-0.002	16.084	24.930	1.00	59.00
		ATOM	1474		LYS	492	-0.988		23.827	1.00	
		ATOM	1475		LYS	492	-1.351	15.281	22.976	1.00	
	45	ATOM	1476		LYS	492	1.841	18.025	28.701	1.00	
	45	MOTA	1477		LYS	492	0.845	17.784		1.00	
		ATOM	1478		ALA	493	3.072	18.012	29.199	1.00	
		ATOM	1479	CA	ALA	493	3.321	17.706	30.600	1.00	49.17
		ATOM	1480	CB	ALA	493	4.777	17.314	30.794	1.00	50.39
		ATOM	1481	C	ALA	493	2.971	18.885	31.501	1.00	49.36
	50	ATOM	1482	0	ALA	493	3.089	18.799	32.723	1.00	51.57
		ATOM	1483	N	GLY	494	2.554	19.989	30.893	1.00	48.61
		ATOM	1484		GLY	494	2.185	21.159	31.671	1.00	46.92
		ATOM	1485		GLY	494	3.322	22.107	32.006	1.00	45.46
		ATOM	1486		GLY	494	3.206	22.921	32.919	1.00	43.58
	55	ATOM	1487		LEU	495	4.431	22.009	31.284	1.00	44.81
		ATOM	1488		LEU	495	5.555	22.899	31.540	1.00	
										1.00	
		ATOM	1489		LEU	495	6.847	22.293	30.988		
		ATOM	1490		LEU	495	7.712	21.459	31.936	1.00	40.99
	C C	ATOM	1491		LEU	495	7.022	20.156	32.260	1.00	44.70
	60	ATOM	1492		LEU	495	9.072	21.189	31.270	1.00	
		ATOM	1493		LEU	495	5.278			1.00	
		MOTA	1494	0	LEU	495	4.664	24.258	29.778	1.00	42.49
							240				

	5	MOTA	1495	N	THR	496	5.718	25.324	31.452	1.00	42.73
		ATOM	1496	CA	THR	496	5.521	26.636	30.845	1.00	43.56
		ATOM	1497	CB	THR	496	5.841	27.767	31.829	1.60	46.09
		ATOM	1498	OG1	THR	496	7.222	27.688	32.208	1.00	43.92
		ATOM	1499	CG2	THR	496	4.965	27.662	33.064	1.00	45.63
	10		1500	C	THR	496	6.471	26.764	29.660	1.00	45.54
	10	ATOM									
		ATOM	1501	0	THR	496	7.370	25.939	29.488	1.00	43.39
		MOTA	1502	N	LEU	497	6.280	27.800	28.849	1.00	45.02
		ATOM	1503	CA	LEU	497	7.135	28.020	27.688	1.00	45.12
		ATOM	1504	CB	LEU	497	6.710	29.286	26.944	1.00	46.62
	15	ATOM	1505	CG	LEU	497	5.933	29.080	25.640	1.00	50.20
		ATOM	1506	CD1	LEU	497	5.886	30.397	24.875	1.00	50.95
		ATOM	1507	CD2	LEU	497	6.589	27.990	24.798	1.00	50.91
		ATOM	1508	C	LEU	497	8.599	28.135	28.101	1.00	44.94
		ATOM	1509	0	LEU	497	9.474	27.516	27.493	1.00	45.03
	20										
	20	ATOM	1510	N .	GLN	498	8.862	28.927	29.137	1.00	41.14
		ATOM	1511	CA	GLN	498	10.221	29.101	29.627	1.00	40.54
		ATOM	1512	CB	GLN	498	10.246	30.140	30.743	1.00	43.82
		ATOM	1513	ÇG	GLN	498	11.585	30.270	31.437	1.00	43.37
		ATOM	1514	CD	GĻN	498	11.539	31.260	32.584	1.00	47.03
, CCC),	25	ATOM	1515	OE1	GLN	498	10,565	31.308	33.332	1.00	49.18
		ATOM	1516	NE2	GLN	498	12.591	32.054	32.727	1.00	45.30
·D		ATOM	1517	C	GLN	498	10.777	27.773	30.145	1.00	39.39
ľ		ATOM	1518	Õ	GLN	498	11.923	27.422	29.866	1.00	35.05
Ü						499		27.040	30.902	1.00	36.49
	20	ATOM	1519	N	GLN		9.965				
, J	30	ATOM	1520	CA	GLN	499	10.391	25.748	31.434	1.00	36.91
		ATOM	1521	CB	GLN	499	9.314	25.155	32.344	1.00	38.84
1		ATOM	1522	CG	GLN	499	9.155	25.825	33.703	1.00	41.33
		ATOM	1523	CD	GLN	499	8.039	25.187	34.512	1.00	42.74
ine ine		ATOM	1524	OE1	GLN	499	7.027	24.760	33.955	1.00	45.44
5	35	ATOM	1525	NE2	GLN	499	8.222	25.107	35.829	1.00	43.48
IJ		ATOM	1526	C	GLN	499	10.655	24.773	30.285	1.00	35.03
		ATOM	1527	0	GLN	499	11.446	23.832	30.422	1.00	36.59
		ATOM	1528	N	GLN	500	9.980	24.994	29.162	1.00	34.14
Ð			1529	CA	GLN	500	10.136	24.138	27.990	1.00	34.65
·D	40	ATOM								1.00	33.90
-	40	ATOM	1530	CB	GLN	500	9.042	24.436	26.958		
		ATOM	1531	CG	GLN	500	7.672	23.872	27.315	1.00	36.62
		ATOM	1532	CD	GLN	500	6.558	24.419	26.435	1.00	40.17
		ATOM	1533	OE1	GLN	500	6.660	24.417	25.207	1.00	40.22
	•	MOTA	1534	NE2	GLN	500	5.482	24.886	27.064	1.00	41.82
	45	ATOM	1535	C	GLN	500	11.511	24,350	27.358	1.00	34.96
		ATOM	1536	0	GLN	500	12.256	23.387	27.124	1.00	30.79
		ATOM	1537	N	HIS		11.835	25.612	27.078	1.00	34.21
		ATOM	1538	CA		501	13.117	25.966	26.480	1.00	37.42
		ATOM	1539	CB	HIS	501	13.195	27.476	26.246	1.00	43.08
	50		1540	CG	HIS	501	12.043	28.027	25.468	1.00	51.13
	30	ATOM									
		ATOM	1541	CD2	HIS	501	11.534	27.678	24.263	1.00	53.05
		MOTA	1542	ND1	HIS	501	11.264	29.068	25.926	1.00	54.54
		ATOM	1543	CE1	HIS	501	10.325	29.337	25.037	1.00	54.36
		ATOM	1544	NE2	HIS	501	10.466	28.508	24.018	1.00	55.19
	55	ATOM	1545	C	HIS	501	14.255	25.543	27.395	1.00	35 [.] .79
		ATOM	1546	0	HIS	501	15.271	24.996	26.945	1.00	36.20
		ATOM	1547	N	GLN	502	14.086	25.799	28.685	1.00	33.90
		ATOM	1548	CA	GLN	502	15.110	25.438	29.650	1.00	32.18
		ATOM	1549	CB	GLN	502	14.740	25.977	31.033	1.00	35.84
	60	ATOM	1550	CG	GLN	502	14.787	27.498	31.113	1.00	32.66
	VV										36.62
		ATOM	1551	CD	GLN	502	14.420	28.028	32.486	1.00	
		ATOM	1552	OE1	GLN	502 ·	14.102	27.262	33.397	1.00	33.99

	5	MOTA	1553	NE2	GLN	502	14.462	29.348	32.640	1.00	36.22
		ATOM	1554	C	GLN	502	15.340	23.932	29.716	1.00	31.79
		ATOM	1555	0	GLN	502	16.483	23.479	29.769	1.00	28.00
		ATOM	1556	N	ARG	503	14.266	23.146	29.705	1.00	30.99
		ATOM	1557	CA	ARG	503	14.436	21.704	29.779	1.00	29.91
	10	ATOM	1558	CB	ARG	503	13.107	21.011	30.052	1.00	32.79
	••	ATOM	1559	CG	ARG	503	13.258	19.541	30.400	1.00	30.84
		ATOM	1560	CD	ARG	503	11.930	18.935	30.798	1.00	30.61
		ATOM	1561		ARG	503	12.021	17.490	30.798	1.00	28.50
				NE							29.00
	1.6	ATOM	1562	CZ	ARG	503	12.489	16.908	32.093	1.00	
	15	MOTA	1563	NH1	ARG	503	12.917	17.640	33.114	1.00	29.85
		ATOM	1564	NH2	ARG	503	12.512	15.583	32.180	1.00	33.73
		ATOM	1565	С	ARG	503	15.051	21.152	28.496	1.00	29.89
		ATOM	1566	0	ARG	503	15.895	20.259	28.548	1.00	29.69
		MOTA	1567	N	LEU	504	14.624	21.675	27.351	1.00	28.99
	20	MOTA	1568	CA	LEU	504	15.164	21.223	26.075	1.00	28.90
		ATOM	1569	CB	LEU	504	14.566	22.023	24.916	1.00	27.72
		MOTA	1570	CG	LEU	504	15.327	21.901	23.593	1.00	30.47
		ATOM	1571	CD1	LEU	504	15.252	20.453	23.117	1.00	31.74
		ATOM	1572	CD2	LEU	504	14.742	22.843	22.542	1.00	29.85
122	25	ATOM	1573	C	LEU	504	16.681	21.419	26.089	1.00	29.69
		MOTA	1574	0	LEU	504	17.439	20.536	25.672	1.00	26.38
D		ATOM	1575	N	ALA	505	17.114	22.585	26.564	1.00	28.51
IJ		ATOM	1576	CA	ALA	505	18.535	22.899	26.632	1.00	25.98
(A)		ATOM	1577	СВ	ALA	505	18.735	24.361	27.039	1.00	29.86
 	30	ATOM	1578	c	ALA	505	19.261	21.977	27.604	1.00	26.67
1		ATOM	1579	ō	ALA	505	20.340	21.462	27.290	1.00	25.54
1-4		ATOM	1580	N	GLN	506	18.677	21.771	28.784	1.00	23.59
اله. '		ATOM	1581	CA	GLN	506	19.299	20.907	29.785	1.00	27.67
ī.i		ATOM	1582	CB	GLN	506	18.434	20.796	31.043	1.00	27.75
	35	ATOM	1583	CG	GLN	506	18.414	22.027	31.945	1.00	32.48
l L	33	ATOM	1584	CD	GLN	506	17.111	22.116	32.736	1.00	38.40
ليزا		ATOM	1585	OE1	GLN	506	16.319	21.167	32.754	1.00	35.97
								23.257		1.00	38.07
ā		MOTA	1586	NE2	GLN	506	16.879		33.386	1.00	
: <u>D</u> Q:	40	MOTA	1587	C	GLN	506	19.500	19.509	29.217		24.53
.53	40	MOTA	1588	0	GLN	506	20.536	18.889	29.441	1.00	26.42
		ATOM	1589	N	LEU	507	18.505	19.017	28.484	1.00	26.78
		ATOM	1590	CA	LEU	507	18.578	17.678	27.902	1.00	26.18
		MOTA	1591	CB	LEU	507	17.225	17.286	27.295	1.00	31.48
	4.5	MOTA	1592	CG	LEU	507	16.052	16.961	28.231	1.00	32.59
	45	MOTA	1593	CD1	LEU	507	14.836	16.561	27.389	1.00	33.78
		ATOM	1594	CD2	LEU	507	16.431	15.838	29.174	1.00	30.18
		ATOM	1595	С	LEU	507	19.652	17.583	26.819	1.00	26.03
		MOTA	1596	0	LEU	507	20.421	16.621	26.771	1.00	27.28
		MOTA	1597	N	LEU	508	19.713	18.583	25.950	1.00	24.31
	50	MOTA	1598	CA	LEU	508	20.690	18.557	24.863	1.00	23.68
		MOTA	1599	CB	LEU	508	20.339	19.629	23.828	1.00	23.91
		ATOM	1600	CG	LEU	508	19.004	19.436	23.102	1.00	24.68
		MOTA	1601	CD1	LEU	508	18.905	20.416	21.945	1.00	25.11
		ATOM	1602	CD2	LEU	508	18.903	17.994	22.580	1.00	27.53
	55	ATOM	1603	C	LEU	508	22.127	18.727	25,341	1.00	22.93
		ATOM	1604	0	LEU	508	23.062	18.200	24.736	1.00	21.36
		ATOM	1605	N	LEU	509	22.302	19.451	26.441	1.00	23.86
		ATOM	1606	CA	LEU	509	23.637	19.661	26.991	1.00	26.28
		ATOM	1607	CB	LEU	509	23.598	20.735	28.095	1.00	28.08
	60	ATOM	1608	CG	LEU	509	23.578	22.214	27.672	1.00	33.98
		ATOM	1609	CD1	LEU	509	23.529	23.114	28.921	1.00	35.23
		ATOM	1610	CD2	LEU	509	24.818	22.525	26.856	1.00	30.48
		- 1 2 01/1	1010				24.010	J	20.000	4.00	50.40

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	5	atom	1611	C	LEU	509	24.154	18.327	27.540		26.08
		ATOM	1612	0	LEU	509	25.354	18.068	27.547	1.00	23.92
		ATOM	1613	N	ILE	510	23.254	17.462	27.993	1.00	24.60
		MOTA	1614	CA	ILE	510	23.712	16.172	28.496	1.00	25.12
		MOTA	1615	CB	ILE	510	22.568	15.368	29.161	1.00	28.51
	10	ATOM	1616	CG2	ILE	510	23.051	13.965	29.506	1.00	31.67
		MOTA	1617	CG1	ILE	510	22.141	16.060	30.459	1.00	31.18
		ATOM	1618	CD1	ILE	510	20.712	15.749	30.882	1.00	37.16
		ATOM	1619	C	ILE	510	24.337	15.351	27.364	1.00	23.86
		ATOM	1620	0	ILE	510	25.225	14.534	27.600	1.00	24.14
	15	ATOM	1621	N	LEU	511	23.889	15.586	26.133	1.00	25.10
	- 0	ATOM	1622	CA	LEU	511	24.420	14.862	24.977	1.00	25.63
		ATOM	1623	CB	LEU	511	23.628	15.225	23.714	1.00	23.89
		ATOM	1624	CG	LEU	511	22.152	14.801	23.659	1.00	25.78
		ATOM	1625	CD1	LEU	511	21.648	14.920	22.224	1.00	26.55
	20	ATOM	1626	CD2	LEU	511	21.990	13.363	24.146	1.00	26.29
	20	ATOM	1627	CDZ	LEU	511	25.912	15.152	24.771	1.00	27.16
			1628		LEU		26.641	14.332	24.771	1.00	24.98
		ATOM		0			•		25.213	1.00	24.75
		ATOM	1629	И	SER	512	26.372	16.319	25.213	1.00	23.68
	25	MOTA	1630	CA	SER	512	27.787	16.637			
	23	ATOM	1631	CB	SER	512	28.023	18.129	25.358	1.00	26.12
D		ATOM	1632	og	SER	512	29.271	18.327	25.986	1.00	37.17
īŪ		ATOM	1633	C	SER	512	28.594	15.765	26.050	1.00	23,15
Ü		ATOM	1634	0	SER	512	29.742	15.383	25.769	1.00	22.15
1-4	20	ATOM	1635	N	AHIS	513	27.993	15.456	27.192	0.50	21.53
N.	30	ATOM	1636	N	BHIS	513	28.008	15.453	27.202	0.50	20.99
4		ATOM	1637	CA	AHIS	513	28.645	14.624	28.196	0.50	21.79
· Let		ATOM	1638	CA	BHIS	513	28.696	14.607	28.174	0.50	20.94
		MOTA	1639	CB	AHIS	513	27.920	14.776	29.536	0.50	23.59
		MOTA	1640	CB	BHIS	513	27.991	14.636	29.536	0.50	21.59
لِدا	35	ATOM	1641	CG	AHIS	513	28,145	16.109	30.179	0.50	
		ATOM	1642	CG	BHIS	513	28.800	14.032	30.642	0.50	23.94
		ATOM	1643	CD2	AHIS	513	29.223	16.616	30.824	0.50	27.56
		ATOM	1644	CD2	BHIS	513	30.095	14.211	31.001	0.50	24.22
ğ		ATOM	1645	ND1	AHIS	513	27.204	17.117	30.160	0.50	30.62
i i.j	40	MOTA	1646	NDI	BHIS	513	28.285	13.105	31.523	0.50	27.00
		ATOM	1647	CE1	AHIS	513	27.693	18.185	30.763	0.50	26.32
		ATOM	1648	CE1	BHIS	513	29.225	12.740	32.376	0.50	24,40
		ATOM	1649	NE2	AHIS	513	28.916	17.908	31.176	0.50	28.30
		ATOM	1650	NE2	BHIS	513	30.334	13.396	32.081	0.50	25.54
	45	ATOM	1651	C	AHIS	513	28.666	13.164	27,738	0.50	19.81
		ATOM	1652	C	BHIS	513	28.720	13.171	27.652	0.50	19.42
		ATOM	1653	0	AHIS	513	29.601	12.426	28.026	0.50	22.45
		ATOM	1654	0	BHIS	513	29.707	12.457	27.809	0.50	22.62
		ATOM	1655	N	ILE	514	27.633	12.753	27.015	1.00	20.76
	50	ATOM	1656	CA	ILE	514	27.572	11.396	26.492	1.00	20.94
		ATOM	1657	CB	ILE	514	26.154	11.086	25.953	1.00	27.76
		ATOM	1658	CG2	ILE.	514	26.169	9.800	25.123	1.00	28.26
		ATOM	1659	CG1	ILE	514	25.185	10.965	27.139	1.00	27.91
		ATOM	1660	CD1	ILE	514	23.752	10.649	26.753	1.00	34.31
	55	ATOM	1661	С	ILE	514	28.641	11.256	25.398	1.00	20.66
		ATOM		0	ILE	514	29.298	10.226	25.285	1.00	22.21
		ATOM	1663		ARG	515	28.825	12.294	24.589	1.00	20.48
		ATOM	1664	CA	ARG	515	29.861	12.243	23.554	1.00	21.98
		ATOM	1665	CB	ARG	515	29.861	13.535	22.726	1.00	23.11
	60	ATOM	1666	CG	ARG	515	31.003	13.611	21.737	1.00	
	•	ATOM	1667	CD	ARG	515	30.664	12.818	20.491	1,00	28.55
		ATOM	1668	NE	ARG	515	29.580	13.482	19.788	1.00	36.24
			•			-		· - 			

	5	ATOM	1669	CZ	ARG	515	29.615	13.827	18.508	1.00	38.91
		ATOM	1670	NH1	ARG	515	30.689	13.566	17.996	1.00	35.37
		ATOM	1671	NH2	ARG	515	28.579	14.459	17.971	1.00	40.27
		ATOM	1672	C	ARG	515	31.221	12.087	24.225	1.00	21.29
		ATOM	1673	ō	ARG	515	32.068	11.305	23.795	1.00	20.06
	1.0								25.793	1.00	23.23
	10	ATOM	1674	N	HIS	516	31.420	12.844			
		MOTA	1675	CA	HIS	516	32.675	12.812	26.034	1.00	24.75
		atom	1676	CB	HIS	516	32.566	13.794	27.206	1.00	24.03
		ATOM	1677	CG	HIS	516	33.826	13.948	27.990	1.00	31.42
		ATOM	1678	CD2	HIS	516	34.138	13.587	29.257	1.00	35.87
	15	ATOM	1679	ND1	HIS	516	34.938	14.586	27.489	1.00	33.59
		ATOM	1680	CEl	HIS	516	35.882	14,613	28.411	1.00	35.70
		ATOM	1681	NE2	HIS	516	35.422	14.013	29.495	1.00	33.35
		ATOM	1682	C	HIS	516	32.965	11.390	26.537	1.00	24.02
		ATOM	1683	Ö	HIS	516	34.059	10.852	26.362	1.00	23.66
	20	ATOM	1684	N	MET	517		10.786	27.168	1.00	20.91
	20	ATOM	1685	CA	MET	517	32.109	9.436	27.684	1.00	24.21
			1686	CB	MET	517	30.837	9.038	28.424	1.00	23.88
		ATOM									
		ATOM	1687	CG	MET	517	30.607	9.903	29.652	1.00	26.32
	0.5	ATOM	1688	SD	MET	517	29.435	9.222	30.790	1.00	26,67
	25	ATOM	1689	CE	MET	517	27.914	9.390	29.807	1.00	23.26
Ď		ATOM	1690	C	MET	517	32.399	8.448	26.564	1.00	23.26
Ü		ATOM	1691	0	MET	517	33.213	7.547	26.728	1.00	26.08
		ATOM	1692	N	SER	518	31,736	8.612	25.423	1.00	21.93
Ö		ATOM	1693	CA	SER	518	31.977	7.717	24.301	1.00	23.08
<u> </u> = 5	30	ATOM	1694	CB	SER	518	30.976	8.027	23.173	1.00	22.02
V		ATOM	1695	OG	SER	518	31.283	7.336	21.978	1.00	24.01
mb		ATOM	1696	C	SER	518	33.432	7.862	23,810	1.00	25.15
V		ATOM	1697	0	SER	518	34.111	6.866	23.532	1.00	22.94
21		ATOM	1698	N	ASN	519	33.923	9.097	23.713	1.00	22.42
	35	ATOM	1699	CA	ASN	519	35.295	9.309	23.260	1.00	21.87
(L)	<i>J</i>	ATOM	1700	CB	ASN	519	35.605	10.807	23.157	1.00	24.46
Ш		ATOM	1701	CG	ASN	519	34.864	11.469	22.021	1.00	29.02
		ATOM	1701	OD1	asn	519	34.661	10.864	20.965	1.00	31.93
ก								12.715	22.224	1.00	28.81
Ū	40	ATOM	1703	ND2	ASN	519	34.459				
ימטי	40	MOTA	1704	C	ASN	519	36.292	8.643	24.201	1.00	21.46
•		ATOM	1705	0	ASN	519	37.251	8.015	23.752	1.00	23.56
		MOTA	1706	N	LYS	520	36.070	8.782	25.504	1.00	23.23
		MOTA	1707	CA	LYS	520	36.964	8.171	26.488	1.00	26.35
		ATOM	1708	CB	LYS	520	36.581	8.592	27.912	1.00	27.53
	45	ATOM	1709	CG	LYS	520	36.618	10.101	28.174	1,00	33.74
		ATOM.	1710	CD	LYS	520	37.962	10.710	27.811	1.00	42.09
		ATOM	1711	CE	LYS	520	39.047	10.307	28.802	1.00	43.97
		ATOM	1712	NZ	LYS	520	39.858	11.480	29.254	1.00	48.07
		MOTA	1713	C	LYS	520	36.899	6.644	26.376	1.00	27.71
	50	ATOM	1714	0	LYS	520	37.913	5.957	26.501	1.00	27.15
		ATOM	1715	N	GLY	521	35,704	6.117	26.141	1.00	25.02
		ATOM	1716	CA	GLY	521	35.562	4.676	26.003	1.00	26.67
		ATOM	1717	C	GLY	521	36.254	4.168	24.753	1.00	27.06
									24.775	1.00	26.84
	55	ATOM	1718	0	GLY	521	36.924	3.128			
	55	ATOM	1719	N	AMET	522	36.101	4.893	23.650	0.50	25.87
		ATOM	1720	N	BMET	522	36.095	4.908	23.658	0.50	27.62
		ATOM	1721	CA	AMET	522	36.727	4.491	22.401	0.50	27.27
		ATOM	1722	CA	BMET	522	36.703	4.551	22.384	0.50	30.14
		ATOM	1723	CB	AMET	522	36.267	5.396	21.260	0,50	26.50
	60	MOTA	1724	CB	BMET	522 .	36.252	5.525	21.288	0.50	32.46
		MOTA	1725	CG	AMET	522	34.827	5.162	20.866	0.50	25.05
		ATOM	1726	CG	BMET	522	35.681	4.854	20.045	0.50	35.70
							0.40				

	5	ATOM	1727	SD	AMET	522	34.585	3.587	20.020	0.50	27.07
		ATOM	1728	SD	BMET	522	34.197	5.672	19,408	0.50	40.01
		ATOM	1729	CE	AMET	522	33.142	4.017	19.031	0.50	31.29
		ATOM	1730	CE	BMET	522	34.733	6.085	17.745	0.50	42.12
		ATOM	1731	C	AMET	522	38.242	4.532	22.512	0.50	28.99
	10	ATOM	1732	č	BMET	522	38.224	4.567	22.483	0.50	30.76
	10	MOTA	1733	0	AMET	522	38.939	3.743	21.870	0.50	31.65
						522	38.905	3.793	21.807	0.50	32,87
		ATOM	1734	0	BMET						
		MOTA	1735	N	GLU	523	38.749	5.452	23.324	1.00	30.85
		ATOM	1736	CA	GLU	523	40.190	5.576	23.513	1.00	34.09
	15	ATOM	1737	CB	GLU	523	40.515	6.725	24.480	1.00	35.59
		ATOM	1738	CG	GLU	523	40.658	8.079	23.784	1.00	43.35
		ATOM	1739	CD .	GLU	523	40.560	9.265	24.739	1.00	46.63
		MOTA	1740	OE1	GLU	523	39.832	10.240	24.416	1,00	47.64
		MOTA	1741	OE2	GLU	523	41.212	9.225	25.805	1.00	43.09
	20	ATOM	1742	C	GLU	523	40.718	4.260	24.061	1.00	34.62
		MOTA	1743	0	GLU	523	41.733	3.747	23.596	1.00	33.87
		ATOM	1744	N	HIS	524	40.021	3.700	25.042	1.00	36.33
		MOTA	1745	CA	HIS	524	40.455	2.427	25.607	1.00	39.20
		ATOM	1746	CB	HIŚ	524	39.678	2.093	26.878	1.00	40.75
	25	ATOM	1747	CG	HIS	524	40.061	0.774	27.473	1.00	48.10
		ATOM	1748	CD2	HIS	524	41.192	0.376	28.104	1.00	48.56
· D		ATOM	1749	ND1	HIS	524	39.247	-0.338	27.412	1.00	48.84
ľŪ		ATOM	1750	CE1	HIS	524	39.859	-1.362	27.978	1.00	50.19
C.I		ATOM	1751	NE2	HIS	524	41.041	-0.956	28.407	1.00	51.61
a	30	ATOM	1752	C	HIS	524	40.290	1.282	24.613	1.00	38.06
1	30	ATOM	1753	0	HIS	524	41.226	0.521	24.371	1.00	38.18
طد أ		ATOM	1754	N	LEU	525	39.101	1.162	24.034	1.00	36.96
14		ATOM	1755	CA	LEU	525	38.831	0.093	23.084	1.00	37.40
#1					LEU			0.093	22.514	1.00	35.89
Ü	35	ATOM	1756	CB		525	37.416				
į,į	33	MOTA	1757	CG	LEU	525	36.268	0.107	23.527	1.00	33.17
لَيْا		ATOM	1758	CD1	LEU	525	34,936	0.246	22.811	1.00	31.77
		MOTA	1759	CD2	LEU	525	36.343	-1.240	24.238	1.00	35.92
Ď		ATOM	1760	C	LEU	525	39,859	0.057	21.954	1.00	41.32
Ü	40	ATOM	1761	0	LEU	525	40.244	-1.015	21.487	1.00	40.76
*	40	ATOM	1762	N	TYR	526	40.314	1.227	21.522	1.00	43.68
		ATOM	1763	CA	TYR	526	41.300	1.297	20.449	1.00	49.00
	•	ATOM	1764	CB	TYR	526	41.376	2.722	19.890	1,00	51.86
		ATOM	1765		TYR	526	42.305	2.878	18.704	1,00	57.70
		MOTA	1766	CD1	TYR	526	41.835	2.718	17.400	1.00	58.93
	45	MOTA	1767	CE1	TYR	526	42.681	2.875	16.305	1.00	61.21
		ATOM	1768	CD2	TYR	526	43.653	3.200	18.883	1.00	58.58
		MOTA	1769	CE2	TYR	526	44.510	3.359	17.790	1.00	61.15
		MOTA	1770	CZ	TYR	526	44.016	3.194	16.505	1.00	61.09
		ATOM	1771	ОН	TYR	526	44.851	3.343	15.417	1.00	63.79
	50	ATOM	1772	C	TYR	526	42.671	0.871	20.964	1.00	50.14
		ATOM	1773	0	TYR	526	43.471	0.303	20.223	1.00	50.73
		ATOM	1774	N	SER	527	42.930	1.139	22.240	1.00	52.72
		ATOM		CA	SER	527	44.205	0.790	22.857	1.00	55.88
		ATOM	1776	CB	SER	527	44.351	1.516	24.199	1.00	55.00
	55	ATOM	1777	OG	SER	527	43.752	0.788	25.257	1.00	52.46
		ATOM	1778	C	SER	527	44.365	-0.718	23.054	1.00	60.39
		ATOM	1779	0	SER	527	45.398	-1.185	23.534	1.00	60.43
		ATOM	1780	N	MET	528	43.335	-1.472	22.678	1.00	63.86
		ATOM	1781		MET	528	43.347	-2.929	22.788	1.00	67.95
	60	ATOM	1782	CA					24.008	1.00	67.85
				CB	MET	528	42.534	-3.381			
		ATOM	1783	CG	MET	528	41.237	-2.606	24.222	1.00	70.10
		ATOM	1784	SD	MET	528	39.895	-3.569	24.983	1.00	71.70

	5	ATOM	1785	CE	MET	528	39.231	-4.412	23.554	1.00	72.57
		MOTA	1786	C	MET	528	42.726	3.502	21.513	1.00	70.33
		ATOM	1787	0	MET	528	42.170	-4.602	21.513	1.00	72.43
		MOTA	1788	N	LYS	529	42.834	-2.739	20.428	1.00	71.53
		MOTA	1789	CA	LYS	529	42.274	-3.122	19.136	1.00	72.00
	10	ATOM	1790	CB	LYS	529	42.508	-2.004	18.119	1.00	71.30
	••	ATOM	1791	c	LYS	529	42.813	-4.439	18.587	1.00	72.47
		ATOM	1792	ō	LYS	529	43.990	-4.762	18.751	1.00	70.37
		ATOM	1793	N	CYS	530	41.932	-5.191	17.930	1.00	74.48
		ATOM	1794	CA	CYS	530	42.279	-6.474	17.325	1.00	76.67
	15			CB		530	41.004			1.00	77.23
	13	ATOM	1795		CYS			-7.245	16.952		79.38
		ATOM	1796	SG	CYS	530	40.447	-8.491	18.146	1.00	
		ATOM	1797	C	CYS	530	43.098	-6.220	16.065	1.00	78.08
		ATOM	1798	0	CYS	530	43.241	-5.076	15.623	1.00	78.81
	20	MOTA	1799	N	LYS	531	43.637	-7.289	15.487	1.00	78.22
	20	ATOM	1800	CA	LYS	531	44.424	-7.187	14.267	1.00	78.15
		ATOM	1801	CB	LYS	531	45.600	-8.182	14.305	1.00	78.33
		MOTA	1802	C	LYS	531	43.508	-7.467	13.067	1.00	77.93
		ATOM	1803	0	LYS	531	42.549	-6.734	12,839	1.00	78.07
		ATOM	1804	N	ASN	532	43.784	-8.539	12.328	1.00	77.80
	25	ATOM	1805	CA	ASN	532	42.984	-8.902	11.152	1.00	77.30
		ATOM	1806	CB	ASN	532	43.550	-10.166	10.521	1.00	77.55
ı.		ATOM	1807	С	ASN	532	41.485	-9.082	11.423	1.00	77.34
IJ		ATOM	1808	0	ASN	532	40.904	-10.123	11.118	1.00	78.13.
IJ		ATOM	1809	N	VAL	533	40.859	-8.055	11.988	1.00	76.13
اب ال, ا	30	ATOM	1810	CA	VAL	533	39.436	-8.098	12.280	1.00	73.77
		ATOM	1811	СВ	VAL	533	39.155	-7.715	13.752	1.00	73.62
甴		ATOM	1812	CG1	VAL	533	39.690	-6.327	14.047	1.00	73.13
اله.		ATOM	1813	CG2	VAL	533	37.662	-7.782	14.021	1.00	73.14
#1		ATOM	1814	C	VAL	533	38.685	-7.143	11.352	1.00	72.97
i D	35	ATOM	1815	Ö	VAL	533	39.024	-5.960	11.252	1.00	73.91
IJ		ATOM	1816	N	VAL	534	37.671	-7.666	10.666	1.00	70.02
لدا		ATOM	1817	CA	VAL	534	36.866	-6.867	9.747	1.00	66.70
		ATOM	1818	CB	VAL	534	35.619	-7.646	9.328	1.00	67.32
Ö		ATOM	1819	C	VAL	534	36.463	-5.541	10.393	1.00	63.87
Ð	40	ATOM	1820	0	VAL	534	35.895	-5.519	11.486	1.00	63.55
	40	ATOM	1821	N	PRO	535	36.756	-4.415	9.719	1.00	60.92
		ATOM	1822	CD	PRO	535	37.424	-4.354	8.408	1.00	61.01
					PRO	535	36.424	-3.077	10.229	1.00	56.83
		ATOM ATOM	1823	CA					9.107	1.00	58.70
	45		1824	CB	PRO	535	36.867	-2.135	7.893		61.55
	43	ATOM	1825	CG	PRO	535	37.023	-3.009		1.00	
		ATOM	1826	С	PRO	535	34.944	-2.902	10.571	1.00	52.90
		ATOM	1827	0	PRO	535	34.067	-3.461	9.908	1.00	52.01
		ATOM	1828	N	LEU	536	34.672	-2.120	11.610	1.00	48.60
		ATOM	1829	CA	LEU	536	33.301	-1.874	12.042	1.00	45.08
	50	ATOM	1830	CB	LEU	536	33.280	-0.796	13.128	1.00	44.35
		ATOM	1831	CG	LEU	536	32.267	-0.911	14.273	1.00	43.48
		ATOM	1832	CD1	LEU	536	31.919	0.490	14.745	1.00	43.41
		ATOM	1833	CD2	LEU	536	31.022	-1.654	13,835	1.00	39.55
		ATOM	1834	С	LEU	536	32.434	-1.433	10.871	1.00	43.58
	55	ATOM	1835	0	LEU	536	31.287	-1.862	10.734	1.00	42.14
		ATOM	1836	N	TYR	537	32.992	-0.575	10.024	1.00	43.02
		MOTA	1837	CA	TYR	537	32.269	-0.066	8.866	1.00	43.34
		ATOM	1838	CB	TYR	537	33.200	0.786	7.997	1.00	44.76
		ATOM	1839	CG	TYR	537	32.483	1.558	6.913	1.00	48.28
	60	ATOM	1840	CD1	TYR	537	32.190	0.964	5.687	1.00	48.46
		ATOM	1841	CE1	TYR	537	31.504	1.660	4.693	1.00	52.48
		ATOM	1842	CD2	TYR	537	32.073	2.875	7.123	1.00	49.99

	5	MOTA	1843	CE2	·TYR	537	31.383	3,584	6.135	1.00	53.73
		Atom	1844	CZ	TYR	537	31.100	2.967	4.924	1.00	54.01
		ATOM	1845	ОН	TYR	537	30.401	3.648	3.952	1.00	55.90
		ATOM	1846	C	TYR	537	31.683	-1.199	8.032	1.00	43.15
			1847	ō	TYR	537	30.500	-1.191	7.696	1.00	41.54
	10	MOTA									
	10	ATOM	1848	N	ASP	538	32.521	-2.175	7.702	1.00	44.67
		ATOM	1849	CA	ASP	538	32.097	-3.309	6.893	1.00	45.49
		MOTA	1850	CB	ASP	538	33.322	-4.126	6.479	1.00	51.32
		ATOM	1851	CG	ASP	538	34.361	-3.284	5.748	1.00	56.17
		MOTA	1852	OD1	ASP	538	35.436	-3.820	5.396	1.00	57,29
	15	ATOM	1853	OD2	ASP	538	34.097	-2.079	5.526	1.00	59.24
		ATOM	1854	C	ASP	538	31.071	-4.195	7.587	1.00	43.48
		ATOM	1855	0	ASP	538	30.177	-4.738	6.940	1.00	43.95
		MOTA	1856	N	LEU	539	31.193	-4.345	8.901	1.00	41.57
		MOTA	1857	CA	LEU	539	30.244	-5.157	9.654	1.00	39.11
	20	MOTA	1858	CB	LEU	539	30.734	-5.351	11.092	1.00	41.88
		ATOM	1859	CG	LEU	539	29.770	-6.065	12.044	1.00	46.11
		ATOM	1860	CD1	LEU	539	29.298	-7.379	11.423	1.00	46.99
		ATOM	1861	CD2	LEU	539	30.474	-6.319	13.377	1.00	45.76
		ATOM	1862	C	LEU	539	28.891	-4.451	9.651	1.00	36.38
	25										
	23	MOTA	1863	0	LEU	539	27.849	-5.070	9.436	1.00	35.74
Ū		MOTA	1864	N	LEU	540	28.919	-3.146	9.894	1.00	35.50
īŪ		MOTA	1865	CA	LEU	540	27.703	-2.336	9.903	1.00	35.59
Ď		MOTA	1866	CB	LEU	540	28.061	-0.877	10.219	1,00	37.63
 		ATOM	1867	CG	LEU	540	27.856	-0.252	11.605	1.00	40.28
	30	MOTA	1868	CD1	LEU	540	27.526	-1.299	12.645	1.00	38.55
, \		ATOM	1869	CD2	LEU	540	29.114	0.506	11.985	1.00	41.04
	_	ATOM	1870	C	LEU	540	27.060	-2.415	8.510	1.00	35.50
120	•	ATOM		0	LEU	540		-2.585	8.371	1.00	33.21
ži			1871				25.846				
	25	MOTA	1872	N	LEU	541	27.892	-2.289	7.483	1.00	37.01
لبا	35	MOTA	1873	CA	LEU	541	27.418	-2.340	6.101	1.00	38.51
لدا		ATOM	1874	CB	LEU	541	28.591	-2.152	5.145	1.00	39.67
1257 1767		MOTA	1875	CG	LEU	541	28.301	-2.112	3.643	1.00	40.92
		MOTA	1876	CD1	LEU	541	27.184	-1.130	3.348	1.00	42.44
Ü	•	ATOM	1877	CD2	LEU	541	29.572	-1.716	2.908	1.00	44.18
Ü	40	ATOM	1878	С	LEU	541	26.723	-3.676	5.833	1.00	39.75
		ATOM	1879	0	LEU	541	25.616	-3.713	5.297	1.00	36.48
	•	ATOM	1880		GLU	542	27.366	-4.770	6.230		
							26.790	-6.097			
		ATOM	1881	CA	GLU	542			6.037	1.00	41.89
	45	ATOM	1882	CB	GLU	542	27.719	-7.170	6.620	1.00	44.11
	45	ATOM	1883	CG	GLU	542	27.010	-8.457	7.052	1.00	50.60
		ATOM	1884	CD	GLU	542	26.434	-9.245	5.887	1.00	55.80
		ATOM	1885	OE1	GLU	542	25.570	-10.117	6.130	1.00	58.81
		MOTA	1886	OE2	GLU	542	26.842	-8.996	4.728	1.00	57.19
		ATOM	1887	С	GLU	542	25.414	-6.195	6.691	1.00	41.58
	50	ATOM	1888	0	GLU	542	24.472	-6.720	6.102	1.00	42.82
		ATOM	1889	N	MET	543	25.298	-5.686	7.915	1.00	40.09
		ATOM	1890	CA	MET	543	24.036	-5.731	8.634	1.00	36.43
		ATOM	1891	CB	MET	543	24.270	-5.424	10.111	1.00	39.95
		MOTA	1892	CG	MET	543	25,137	-6.459	10.808	1.00	41.95
	55	ATOM	1893	SD	MET	543	24.918	-6.445	12.604	1.00	47.17
		MOTA	1894	CE	MET	543	25.324	-4.749	12.964	1.00	40,88
		ATOM	1895	С	MET	543	23.001	-4.769	8.072	1.00	35.02
•		ATOM	1896	o	MET	543	21.808	-5.073	8.048	1.00	35.31
		ATOM	1897	N	LEU	544	23.457	-3.605	7.629	1.00	32.90
	60	ATOM	1898	CA	LEU	544	22.559	-2.603	7.074	1.00	36.88
	50										
		MOTA	1899	CB	LEU	544	23.225	-1.226	7.111	1.00	34.51
		MOTA	1900	CG	LEU	544	23.268	-0.562	8.490	1.00	31.94

	5	ATOM	1901	CD1	LEU	544	24.284	0.564	8.478	1.00	32.27
		ATOM	1902	CD2	LEU	544	21.897	-0.029	8.846	1.00	29.02
		ATOM	1903	C	LEU	544 °	22.148	-2.941	5.640	1.00	38.94
		MOTA	1904	0	LEU	544	20.971	-2.842	5.294	1.00	39.52
		ATOM	1905	N	ASP	545	23.118	-3.338	4.817	1.00	41.05
	10	ATOM	1906	CA	ASP	545	22.850	-3.685	3.418	1.00	40.78
		ATOM	1907	CB	ASP	545	24.159	-3.780	2.620	1.00	37.75
		MOTA	1908	CG	ASP	545	23.922	-3.937	1.120	1.00	35.19
		MOTA	1909	OD1	ASP	545	24.881	-4.265	0.380	1.00	33.48
		ATOM	1910	OD2	ASP	545	22.768	-3.734	0.691	1.00	31.33
	15	ATOM	1911	C	ASP	545	22.116	-5.015	3.349	1.00	42.87
		ATOM	1912	0	ASP	545	22.681	-6.030	2.929	1.00	44.32
		ATOM	1913	N	ALA	546	20.853	-5.009	3.755	1.00	43.49
		ATOM	1914	CA	ALA	546	20.069	-6.229	3.746	1.00	46.96
		ATOM	1915	CB	ALA	546	19.213	-6.305	5.006	1.00	47.82
	20	ATOM	1916	C	ALA	546	19.193	-6.362	2.508	1.00	49.55
		ATOM	1917	ō	ALA	546	18.804	-5.368	1.883	1.00	48.75
		ATOM	1918	N	HIS	547	18.895	-7.606	2.152	1.00	50.98
		ATOM	1919	CA	HIS	547	18.042	-7.884	1.006	1.00	53.77
		ATOM	1920	CB	HIS	547	18.431	-9.223	0.369	1.00	52.69
	25	ATOM	1921	CG	HIS	547	18.395	-10.382	1.317	1.00	55.05
Ē		ATOM	1922	CD2	HIS	547	17.477	-10.752	2.242	1.00	53.94
Ō		ATOM	1923	ND1	HIS	547	19.395	-11.329	1.371	1.00	56.23
ľŲ		ATOM	1924	CE1	HIS	547	19.095	-12.232	2.286	1.00	55.36
D		ATOM	1925	NE2	HIS	547	17.936	-11.906	2.830	1.00	57.01
-	30	ATOM	1926	C	HIS	547	16.603	-7.936	1.518	1.00	55.69
ال.	30	ATOM	1927	0	HIS	547	16.362	-7.796	2.720	1.00	54.30
lup		ATOM	1928	N	ARG	548	15.653	-8.139	0.612	1.00	57.00
, r*1		ATOM	1929	CA	ARG	548	14.245	-8.212	0.987	1.00	60.65
#!		ATOM	1930	CB	ARG	548	13.432	-7.171	0.208	1.00	62.69
	35	ATOM	1931	CG	ARG	548	14.272	-6.222	-0.637	1.00	67.54.
ليا	33	ATOM	1932	CD	ARG	548	13.448	-5.061	-1.171	1.00	71.92
لزا		ATOM	1932	NE	ARG	548	13.702	-3.826	-0.432	1.00	76.95
		ATOM	1934	CZ	ARG	548	14.864	-3.178	-0.429	1.00	79.04
Ō			1935	NH1	ARG	548	15.891	-3.644	-1.128	1.00	80.66
Qí	40	ATOM ATOM	1936	NH2	ARG	548	15.001	-2.063	0.278	1.00	80.39
	40	ATOM	1937	C	ARG	548	13.695	-9.608	0.278	1.00	61.65
							12.500	-9.781	0.466		62.05
		ATOM	1938		ARG	548			0.756		62.39
		ATOM	1939		LEU	549		-10.603 -11.985	0.756	1.00	
	15	ATOM	1940	CA	LEU	549					64.02
	45	ATOM	1941	CB	LEU	549		-12.828	0.195	1.00	62.14
		ATOM	1942	CG	LEU	549		-12.191	-0.753	1.00	60.76
		ATOM	1943	CD1	LEU	549		-13.074	-0.878	1.00	57.77
		ATOM	1944		LEU	549		-11.972	-2.108	1.00	58.38
	60	ATOM	1945	С	LEU	549		-12.574	1.702	1.00	66.65
	50	ATOM	1946	0	LEU	549		-13.600	1.577	1.00	67.15
		ATOM	1947	N	HIS	550		-11.920	2.856	1.00	67.72
		ATOM	1948	CA	HIS	550		-12.378	4.065	1.00	69.93
		ATOM	1949	CB	HIS	550		-12.190	5.298	1.00	70.76
	c c	ATOM	1950	CG	HIS	550		-13.054	5.306	1.00	71.50
	55	ATOM	1951	CD2	HIS	550		-13.821	4.341	1.00	71.63
		MOTA	1952	ND1	HIS	550		-13.172	6.411	1.00	71.98
		ATOM	1953	CE1	HIS	550		-13.972	6.126	1.00	72.04
		ATOM	1954	NE2	HIS	550		-14.379	4.876	1.00	71.39
		ATOM	1955	C	HIS	550		-11.603	4.275	1.00	71.15
	60	ATOM	1956	0	HIS	550		-11.684	5.340	1.00	70.66
		ATOM	1957		ALA	551		-10.851	3.258	1.00	72.22
		ATOM	1958	CA	ALA	551	9.919	-10.057	3.338	1.00	73.58
							05/				

5	ATOM	1959	СВ	ALA	551	9.904	-9.014	2.221	1.00	73.21
J	ATOM	1960	C	ALA	551	8.658	-10.920	3.266	1.00	74.69
	MOTA	1961	õ	ALA	551	7.684	-10.474	2.621	1.00	76.12
	MOTA	1962	OXT	ALA	551	8.651	-12.025	3.852	1.00	73.79
	HETATM	1963	ClO	OHT	600	30.581	1.481	29.471	1.00	26.84
10	HETATM	1964	C9	OHT	600	30.713	-0.043	29.358	1.60	22.85
10	HETATM	1965	C8	OHT	600	31.366	-0.385	28.037	1.00	25.56
	HETATM	1966	C11	OHT	600	32.761	0.051	27.916	1.00	27.51
	HETATM	1967	C16	OHT	600	33.218	0.797	26.797	1.00	28.35
	HETATM	1968	C15	OHT	600	34.551	1.237	26.747	1.00	30.39
15	HETATM	1969	C14	OHT	600	35.443	0.923	27.792	1.00	30.23
1.5	HETATM	1970	C13	OHT	600	35.004	0.185	28.890	1.00	31.45
	HETATM	1971	C12	OHT	600	33.666	-0.241	28.955	1.00	27.93
	HETATM	1972	C7	OHT	600	30.682	-1.089	27.077	1.00	24.41
	HETATM	1973	Ci	OHT	600	29.211	-1.258	27.052	1.00	24.26
20	HETATM	1974	C2	OHT	600	28.644	-2.526	26.706	1.00	25.92
20	HETATM	1975	C3	OHT	600	27.254	-2.668	26.580	1.00	26.32
	HETATM	1976	C4	OHT	600	26.438	-1.553	26.813	1.00	29.02
	HETATM	1977	04	OHT	600	25.072	-1.605	26.716		28.42
	HETATM	1978	C5	OHT	600	26.980	-0.286	27.130	1.00	26.98
25	HETATM	1979	C6	OHT	600	28.362	-0.147	27.231	1.00	25.23
1	HETATM	1980	C17	OHT	600	31.370	-1.692	25.942	1.00	26.61
	HETATM	1981	C18	OHT	600	32.508	-2.498	26.151	1.00	26.77
ı	HETATM	1982	C19	OHT	600	33.166	-3.052	25.072	1.00	27.50
l	HETATM	1983	C20	OHT	600	32.676	-2.794	23.786	1.00	27.50
30	HETATM	1984	020	OHT	600	33.206	-3.566	22.795	1.00	31.35
	HETATM	1985	C23	OHT	600	33.009	-3.135	21.448	1.00	40.09
:	HETATM	1986	C24	OHT	600	34.226	-3.490	20.575	1.00	44.80
	HETATM	1987	N24	OHT	600	34.141	-4.901	20.203	1.00	49.00
	HETATM	1988	C25	OHT	600	33.375	-5.040	18.933	1.00	51.64
35	HETATM	1989	C26	OHT	600	35.495	-5.459	20.004	1.00	52.06
!	HETATM	1990	C21	OHT	600	31.540	-2,005	23.558	1.00	27.19
į	HETATM	1991.	C22	OHT	600	30.892	-1.450	24.645	1.00	27.92
	HETATM	1992	01	нон	1	20.714	-12.010	23.057	1.00	27.20
	HETATM	1993	01	нон	2	22.563	-0.070	25.819	1.00	25.77
40	HETATM	1994	01	HOH	3	25.183	19.202	23.149	1.00	42.52
	HETATM	1995	01	HOH	4	35.158	5.823	37.390	1.00	33.92
	HETATM	1996	01	нон	5	22.116	-9.922	18.914	1.00	30.18
	HETATM	1997	01	HOH	6	29.812	6.536	19.652	1.00	26.11
	HETATM	1998	01	нон	7	13.362	4.463	20.376	1.00	29.40
45	HETATM	1999	01	нон	8	19.799	-11.295	20.187	1.00	28.70
	HETATM	2000	01	нон	9	21.205	1.466	23.794	1.00	22.47
	HETATM	2001	01	нон	10	21.177	-4.961	29.066	1.00	33.00
	HETATM	2002	01	нон	11	18.591	1.863	20.518	1.00	32.59
	HETATM	2003	01	нон	12	16.298	21.566	15.992	1.00	33,42
50	HETATM	2004	01	нон	13	18.611	1.976	24.494	1.00	29.70
	HETATM	2005	01	нон	14	38.009	8.910	21.156	1.00	39.92
	HETATM	2006	01	нон	15	26.549	11.664	18.080	1.00	30.25
	HETATM	2007	01	нон	16	20.282	-4.239	26.512	1.00	32.70
<i></i>	HETATM	2008	01	нон	17	32.858	8.754	20.237	1.00	29.88
55	HETATM	2009	01	нон	18	8.497	16.136	29.934	1.00	46.80
	HETATM	2010	01	нон	19	21.940	19.301	31.632	1.00	35.72
	HETATM	2011	01	нон	20	35.153	2.682	14.122	1,00	41.02
	HETATM	2012	01	НОН	21 .	20.358	-2.268	21.013	1.00	29.43
60	HETATM	2013		НОН	22	35.562	10.036	36.334	1.00	41.37 33.96
60	HETATM	2014	01	HOH	23	17.248	18.187 20.973	17.571 12.346	1.00	43.44
	HETATM	2015 2016	01 01	HOH	24	18.445 12.152	20.973	33.132	1.00	36.04
	HETATM	~U10	O1	нон	25	14.152		A	1.00	JU. U4

GEGEEN" ZIZTBZOO





HETATM 2018 01 HOH 27 19.389 -6.090 12.809 1.00 44.86 HETATM 2019 01 HOH 28 37.895 13.599 31.395 1.00 47.26 HETATM 2020 01 HOH 29 11.570 6.212 7.962 1.00 51.20 HETATM 2021 01 HOH 30 20.172 -2.568 23.445 1.00 51.70 HETATM 2023 01 HOH 31 36.402 -5.369 23.729 1.00 58.20 HETATM 2023 01 HOH 32 25.127 13.802 19.187 1.00 35.29 HETATM 2025 01 HOH 33 23.181 4.937 38.538 1.00 33.77 HETATM 2025 01 HOH 34 20.550 0.421 21.276 1.00 39.12 HETATM 2026 01 HOH 35 39.599 13.954 27.312 1.00 44.08 HETATM 2027 01 HOH 35 39.599 13.954 27.312 1.00 44.08 HETATM 2029 01 HOH 36 26.445 13.863 21.285 1.00 34.97 HETATM 2029 01 HOH 37 13.759 5.079 9.108 1.00 38.54 HETATM 2020 01 HOH 37 13.759 5.079 9.108 1.00 59.79 HETATM 2021 01 HOH 38 14.150 24.731 34.529 1.00 49.72 HETATM 2031 01 HOH 40 32.215 6.217 8.726 1.00 60.22 4.00 HETATM 2031 01 HOH 40 32.215 6.217 8.726 1.00 60.22 4.00 HETATM 2032 01 HOH 41 35.105 15.704 9.069 1.00 45.15 HETATM 2033 01 HOH 42 11.427 19.451 9.903 1.00 47.71 HETATM 2035 01 HOH 43 19.662 23.472 10.333 1.00 47.71 HETATM 2035 01 HOH 43 19.662 23.472 10.333 1.00 47.71 HETATM 2035 01 HOH 44 15.510 15.704 9.069 1.00 45.15 HETATM 2036 01 HOH 46 15.5313 -6.036 17.192 1.00 39.07 HETATM 2038 01 HOH 45 15.313 -6.036 17.192 1.00 39.07 HETATM 2038 01 HOH 46 15.517 -3.266 17.097 1.00 39.07 HETATM 2039 01 HOH 46 15.517 -3.266 17.097 1.00 39.07 HETATM 2039 01 HOH 48 27.868 -1.0898 28.271 1.00 39.07 HETATM 2030 01 HOH 48 27.868 -1.0898 28.271 1.00 39.07 HETATM 2040 01 HOH 50 22.2551 -15.030 28.660 17.097 1.00 45.98 HETATM 2040 01 HOH 50 22.051 -15.030 28.660 17.097 1.00 55.22 HETATM 2040 01 HOH 51 7.026 31.002 30.284 1.00 46.73 HETATM 2040 01 HOH 52 -1.489 12.985 15.164 1.00 55.22 HETATM 2040 01 HOH 52 -1.489 12.995 13.568 26.233 1.00 48.98 HETATM 2040 01 HOH 52 -1.489 12.995 13.568 26.233 1.00 48.98 HETATM 2040 01 HOH 52 -1.489 12.995 13.568 26.233 1.00 48.98 HETATM 2040 01 HOH 52 -1.489 12.995 13.568 26.230 1.00 46.52 14.741 4.029 33.936 1.00 46.52 14.741 4.029 33.936 1.00 46.52 14.741 4.029 33.936 1.00 46.62 14.741 4.029 33.936 1	5	HETATM	2017	01	нон	26	13.181	22.222	9.699	1.00	37.03
HETATM 2019 O1 HOH 28 37.895 13.599 31.395 1.00 47.26 HETATM 2021 O1 HOH 30 20.172 -2.568 23.445 1.00 51.70 10 HETATM 2022 O1 HOH 30 20.172 -2.568 23.445 1.00 51.70 10 HETATM 2022 O1 HOH 32 25.127 13.802 19.187 1.00 35.29 HETATM 2024 O1 HOH 32 25.127 13.802 19.187 1.00 35.29 HETATM 2025 O1 HOH 32 25.127 13.802 19.187 1.00 35.29 HETATM 2026 O1 HOH 34 20.550 0.421 21.276 1.00 43.02 19.12 HETATM 2026 O1 HOH 35 39.599 13.954 27.312 1.00 44.08 15 HETATM 2026 O1 HOH 36 26.445 13.863 21.285 1.00 34.97 HETATM 2029 O1 HOH 36 26.445 13.863 21.285 1.00 34.97 HETATM 2029 O1 HOH 37 13.759 5.079 9.108 1.00 34.59 HETATM 2030 O1 HOH 39 21.060 13.886 -6.319 1.00 59.79 HETATM 2031 O1 HOH 40 32.215 6.217 8.726 1.00 60.22 1.00 HETATM 2033 O1 HOH 41 35.105 15.704 9.069 1.00 60.22 1.00 HETATM 2033 O1 HOH 42 11.427 19.451 9.903 1.00 45.15 HETATM 2030 O1 HOH 43 19.662 23.472 10.333 1.00 47.71 HETATM 2035 O1 HOH 43 19.662 23.472 10.333 1.00 47.71 HETATM 2036 O1 HOH 43 19.662 23.472 10.333 1.00 47.71 HETATM 2036 O1 HOH 45 15.313 -6.036 17.192 1.00 37.67 HETATM 2039 O1 HOH 45 15.313 -6.036 17.192 1.00 37.67 HETATM 2039 O1 HOH 45 15.313 -6.036 17.192 1.00 37.67 HETATM 2039 O1 HOH 46 15.517 -3.266 17.9707 1.00 37.67 HETATM 2039 O1 HOH 46 15.517 -3.266 17.9707 1.00 37.67 HETATM 2039 O1 HOH 46 15.517 -3.266 17.9707 1.00 37.67 HETATM 2040 O1 HOH 49 6.955 13.568 22.33 1.00 48.93 1.00 45.15 HETATM 2040 O1 HOH 50 22.051 -15.00 28.663 1.00 55.48 HETATM 2040 O1 HOH 50 22.051 -15.00 28.663 1.00 55.25 1.00 45.15 HETATM 2040 O1 HOH 51 48.27 1.00 50.38 HETATM 2040 O1 HOH 52 -1.489 12.385 15.10 15.10 55.23 1.00 55.38 HETATM 2045 O1 HOH 52 -1.489 12.385 15.10 0.0 55.28 1.00 45.15 HETATM 2045 O1 HOH 55 2.051 13.002 30.284 1.00 45.15 HETATM 2045 O1 HOH 55 2.051 13.002 30.284 1.00 45.15 HETATM 2045 O1 HOH 55 2.051 13.002 30.284 1.00 55.20 48.93 1.00 4	,			-							
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UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

Page <u>1</u> of <u>185</u>

PATENT NO.

.: 6,965,850

APPLICATION NO :: 09/281,717

DATED

.: NOVEMBER 15, 2005

INVENTOR(S)

.: JOHN D. BAXTER, WEIJUN FENG, ROBERT J. FLETTERICK, J. PETER KUSHNER,

RICHARD L. WAGNER, BRIAN L. WEST, KEITH R. YAMAMOTO AND BEATRICE

DARIMONT

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please insert Appendix 1, Appendix 2, and Appendix 3 as attached hereto, at Col. 40, after "The invention now being fully described, it will be apparent to one of ordinary skill in the art that many changes and modifications can be made thereto without departing from the spirit or scope of the appended claims" and

before "SEQUENCE LISTING".

MAILING ADDRESS OF SENDER:

Richard G. A Bone Fish & Richardson P.C. P.O. Box 1022 Minneapolis, Minnesota 55440-1022

Appendix 1

Atomic Coordinates for Human TR-B Complexed With T3, and a GRIP1 NR-box 2 Peptide

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REMARK full length numbering
REMARK all residue names correct
REMARK peptide sequence
REMARK two molecules of TRB - CHAIN A and CHAIN B
REMARK two molecules of T3 - CHAIN J and CHAIN K
REMARK two molecules of GRIP-1 peptide - CHAIN X and CHAIN Y
REMARK chain X lies between A and B
REMARK chain Y interacts with B only
REMARK residues differing between A and B include:
REMARK A 217 Glu, A 252 Gln, A 263 Lys (missing side chains)
REMARK B 237 Ser, B239 His, B 394 Lys (missing side chains)
REMARK additionally Gly 261, Gly 262 are not visible in chain A
REMARK residues differing between X and Y include:
REMARK A 692 Arg
REMARK additionally, residues Lys 688, Lys 689; Ser 697, Ser 698
REMARK are not visible in chain Y
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                                   52.546
                                            23.912
                                                     35.239
                                                              1.00 45.76
                  LYS A 211
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ATOM
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ATOM
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                                                                 1.00 61.33
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                   GLU A 248
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ATOM
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ATOM
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MOTA
ATOM
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MOTA
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                   ASP A
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                   ASP A 249
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MOTA
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MOTA	305	СВ	ASP	A 249	12.088	45.531	12.116	1.00	62.97	6
ATOM	306	CG	ASP	A 249	11.277	44.527	12.870	1.00	64.63	6
ATOM	307	OD1	ASP	A 249	11.687	43.352	12.963	1.00	64.84	8
ATOM	308		ASP		10.183	44.880	13.395	1.00	66.52	8
ATOM	309	С	ASP	A 249	13.371	46.062	14.130	1.00	64.31	6
ATOM	310	0		A 249	13.310	47.250		1.00	64.73	8
ATOM	311	N		A 250	13.274	45.049	14.997	1.00	63.09	7
ATOM	312	CA		A 250	13.133	45.318	16.418	1.00	64.39	6
ATOM	313	СВ		A 250	13.035	44.034	17.214		65.79	6
ATOM	314	CG2		A 250	12.001	44.104	18.336		64.78	6
ATOM	315	CG1		A 250	12.611	42.860	16.341		65.28	6
ATOM	316	CD1		A 250	11.753	41.852	17.088		65.08	6
ATOM	317	C		A 250	14.404	46.104	17.276		65.21	6
ATOM	318	0		A 250	15.155	45.506	18.047		64.05	8
ATOM	319	N		A 251	14.670	47.529	17.299		65.48	. 7
ATOM	320	CA		A 251	15.871	48.326	18.042		67.32	6
	321	CA		A 251	16.595	49.110	16.895		68.52	6
ATOM	322	0		A 251	17.528	48.616	16.266		65.49	8
ATOM		N		A 251		50.356				7
ATOM	323				16.162		16.557		72.26	
ATOM	324	CA		A 252	16.541	50.930	15.207		74.10 75.82	6
ATOM	325	СВ		A 252	15.316	50.844	14.295			6
ATOM	326	. C		A 252	16.995	52.403	15.084		77.17	6
ATOM	327	0		A 252	17.572	52.955	15.986		76.50	8
MOTA	328	N		A 253	16.374	53.372	13.908		80.78	
ATOM	329	CA		A 253	16.687	54.725	13,567		83.70	6
ATOM	330	CB		A 253	16.381	54.956	12.093		83.23	6
ATOM	331	. C		A 253	16.159	55.960	14.345		85.59	6
ATOM	332	0		A 253	15.317	56.721	13.798		85.69	8
ATOM	333	N		A 254	16.384	56.155	16.264		35.05	7
MOTA	334	CD	PRO A		17.102	55.053	16.908		33.97	6
ATOM	335	CA		A 254	16.002	57.231	17.219		35.89	6
ATOM	336	CB		A 254	16.534	56.756	18.563		33.94	6
ATOM	337	CG	PRO A		17.146	55.441	18.349		33.31	6
ATOM	338	С		254	16.717	58.498	16.731		37.75	6
ATOM	339	0	PRO A	A 254	17.838	58.804	17.100	1.00	38.78	.8
TER	_								<i>.</i>	
ATOM	1	N	LYS A		18.045	57.462	23.875	1.00		7
ATOM	2	CA	LYS A		16.824	56.712	24.215		64.36	6
ATOM	3	CB	LYS A		15.758	57.004	23.141		63.50	6
ATOM	4	С	LYS A		16.841	55.180	24.429		63.41	6
ATOM	5	0	LYS A		17.877	54.542	24.409		61.93	8
MOTA	6	N	VAL A		15.615	54.664	24.654		61.15	7
MOTA	7	CA	VAL A		15.292	53.229	24.856	1.00		6
MOTA	8	CB	VAL A		14.251	52.974	25.978	•	59.03	6
ATOM	9	CG1	VAL A		14.229	51.494	26.368	1.00		6
MOTA	10	CG2	VAL A		14.449	53.818	27.142	1.00	55.32	6
MOTA	11	С	VAL A	A 264	14.590	52.820	23.554	1.00	60.96	6
ATOM	12	0	VAL A	264	14.734	53.468	22.508	1.00	62.13	8
ATOM	13	N	ASP A	A 265	13.802	51.755	23.634	1.00	62.59	7
ATOM	14	CA	ASP A	265	12.995	51.263	22.526	1.00	64.95	6
ATOM	15	CB	ASP A	A 265	13.825	51.077	21.271	1.00	64.32	6
ATOM	16	CG	ASP A		13.282	50.048	20.485	1.00		6
ATOM	17		ASP A		12.795	50.011	19.446	1.00		8
ATOM	18		ASP A		13.354	48.867	20.294	1.00		8

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ATOM
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ATOM
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ATOM
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MOTA
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MOTA
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ATOM
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ATOM
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ATOM
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MOTA
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ATOM
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ATOM
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MOTA
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               CB
                   HIS A 271
ATOM
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MOTA
          63
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               CD2 HIS A 271
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MOTA
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               ND1 HIS A 271
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MOTA
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ATOM
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               NE2 HIS A 271
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MOTA
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MOTA
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ATOM
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ATOM
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ATOM
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MOTA
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MOTA	73	CG			272	15.953	42.413	25.282	1.00 33.39	6	•
MOTA	74		PHE			16.619	43.615	25.093	1.00 33.14	6	
ATOM	75		PHE			16.138	41.394	24.346	1.00 38.28	6	
ATOM	76 77	CE1			272 272	17.454 16.973	43.807 41.585	23.988 23.244	1.00 38.26 1.00 43.28	6 6	
ATOM ATOM	78	CZ			272	17.634	42.786	23.068	1.00 39.74	6	
ATOM	79	C			272	13.650	40.528	27.764	1.00 40.75	6	
ATOM	80	o			272	14.081	39.476	28.227	1.00 35.51	8	
ATOM	81	N	THR			12.756	41.266	28.428	1.00 41.64	7	
ATOM	82	CA	THR			12.290	40.854	29.757	1.00 45.97	6	
ATOM	83	CB	THR	A	273	11.651	42.025	30.506	1.00 51.52	б	
ATOM	84	OG1				10.442	42.422	29.859	1.00 45.74	8	
ATOM	85	CG2				12.601	43.211	30.565	1.00 49.73	6	
ATOM	86	С	THR			11.267	39.731	29.664	1.00 46.23	6	
ATOM	87 88	О И	THR		274	10.854	39.183 39.412	30.680 28.440	1.00 41.21 1.00 46.21	8 7	
ATOM ATOM	89	CA	LYS		•	9.871	38.362	28.211	1.00 48.21	6	
ATOM	90	CB	LYS			9.414	38.405	26.773	1.00 54.36	6	
ATOM	91	С			274	10.498	37.015	28.515		6	
ATOM	92	0	LYS	A	274	9.789	36.044	28.759	1.00 57.98	8	
ATOM	93	N	ILE			11.836	36.973	28.491	1.00 56.48	7	
ATOM	94	CA	ILE			12.609	35,746	28.767	1.00 52.64	6	
ATOM	95	CB	ILE			13.444	35.346	27.543	1.00 49.15	6	
ATOM	96 97	CG2 CG1	ILE ILE			12.568 14.238	34.829 36.532	26.429 27.026	1.00 47.42 1.00 45.31	6 6	8
MOTA MOTA	98	CD1	ILE			15.001	36.242	25.771	1.00 37.22	6	
ATOM	99	C	ILE			13.541	35.870	29.982	1.00 51.78	6	
ATOM	100	0	ILE			14.014	34.873	30.503	1.00 49.80	8	
ATOM	101	N	ILE	A	276	13.790	37.107	30.415	1.00 51.76	7	
ATOM	102	CA	ILE			14.681	37.389	31.537	1.00 52.58	6	
MOTA	103	CB	ILE			14.691	38.877	31.844	1.00 55.04	6	+
ATOM ATOM	104 105	CG2	ILE			13.311 15.675	39.340 39.206	32.261 32.976	1.00 53.28 1.00 57.31	6 6	
ATOM	105	CD1				17.096	38.942	32.655	1.00 60.32	6	
ATOM	107	C	ILE			14.323	36.644	32.828	1.00 50.70	6	
ATOM	108	0	ILE	A	276	15.177	36,458	33.691	1.00 55.55	8	
MOTA	109	N	THR			13.072	36.209	32.963	1.00 47.33	7	
MOTA	110	CA	THR			12.631	35,523	34.158	1.00 42.59	. 6	
ATOM	111	CB	THR			11.098	35.456	34.217	1.00 44.97	6	
ATOM	112 113		THR THR			10.545 10.657	36.777 34.838	34.102 35.539	1.00 46.38 1.00 37.17	8 6	
ATOM ATOM	113	CGZ	THR			13.211	34.838	34.304	1.00 37.17	6	
ATOM	115	0	THR			13.796	33.796	35.365	1.00 40.55	8.	
MOTA	116	N	PRO			13.055	33.261	33.288	1.00 38.20	7	
ATOM	117	CD	PRO			12.370	33.534	32.023	1.00 36.34	6	
MOTA	118	CA	PRO.			13.595	31.894	33.363	1.00 36.63	6	
MOTA	119	СВ	PRO			13.153	31.244	32.064	1,00 32.95	6	
ATOM	120	CG	PRO			12.573	32.291	31.239	1.00 35.75	6	
ATOM	121	С	PRO			15.101	31.932	33.476	1.00 38.60	6	•
ATOM	122 123	O NI	PRO ALA			15.746 15.656	30.981 33.051	33.898 33.035	1.00 37.67 1.00 37.05	8 7	
ATOM ATOM	123	N CA	ALA .			17.087	33.031	33.033	1.00 37.03	6	
ATOM	125	CB	ALA			17.376	34.599	32.348	1.00 30.56	6	
ATOM	126	С	ALA			17.624	33.312	34.452	1.00 33.47	6	

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1.00 33.74
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MOTA
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ATOM
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ATOM
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ATOM
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ATOM
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ATOM
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ATOM
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ATOM
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MOTA
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ATOM	290	CA		A 300		22.661 23.919	36.042 35.513	52.509 53.213		43.32	6
ATOM	291	CB		A 300		24.223	36.239	54.473		36.23	6
ATOM	292	CG		A 300		24.223	37.488			35.87	6
MOTA	293	OD1		A 300		24.133		54.493		•	8
MOTA	294	OD2		A 300		22.514	35.575 35.390	55.483 51.138		40.14	8
ATOM	295	С		A 300		22.775	36.021	50.113		42.81	6
ATOM	296	0		A 300 A 301		22.775	34.124	51.137		46.02 38.60	8 7
ATOM	297 298	N CA		A 301		21.896	33.390	49.902		40.00	
ATOM	299	CB		A 301		20.991	32,179	50.137		38.59	6
ATOM	300	CG		A 301		21.644	31.003	50.808	1.00		6
ATOM ATOM	301	CD		A 301		20.690	29.824	50.988		44.15	6
ATOM	302	OE1		A 301		19.658	29.957	51.675		45.73	8
ATOM	303	NE2		A 301		21.027	28.685	50.394		46.13	7
ATOM	304	C		A 301		21.242	34.305	48.877		41.64	6
ATOM	305	Ö		A 301		21.482	34.185	47.686		45.02	. 8
ATOM	306	N		A 302		20.413	35.228	49.372		41.01	7
ATOM	307	CA		A 302		19.726	36.179	48.511		40.23	6
ATOM	308	СВ		302		18.502	36.774	49.217		39.52	6
ATOM	309	CG2		302		17.818	37.788	48.342		31.98	6
ATOM	310	CG1	ILE A			17.502	35.673	49.581			6
ATOM	311	CD1	ILE A			17.003	34.897		1.00		6
ATOM	312	С	ILE A	302		20.698	37.268	48.096	1.00	38.58	6
ATOM	313	0	ILE A	302	•	20.960	37.453	46.906	1.00	40.81	8
ATOM	314	N	ILE A	303		21.228	37.972	49.097	1,00	37.50	7
ATOM	315	CA	ILE A	303		22.179	39.060	48.874	1.00	39.33	6
MOTA	316	CB	ILE A	303		23.023	39.338	50.109		39.06	6
MOTA	317		ILE A			23.946	40.522	49.861		36.19	
ATOM	318	CG1	ILE A			22.141	39.653	51.313		40.15	6
MOTA	319	CD1	ILE F			22.916	39.806	52.589		36.93	6
MOTA	320	C	ILE A			23.093	38.705	47,722		36.49	6
ATOM	321	0	ILE A			23.354	39.509	46.835		36.58	8
ATOM	322	N	LEU A			23.580	37.477	47.762		32.91 27.55	7
ATOM	323	CA	LEU F			24.465 24.935	36.964 35.554	46.734 47.123		22.35	6 6
ATOM	324 325	CB CG	LEU F			26.150	35.480	48.029		26.88	6
ATOM ATOM	326		LEU F			26.267	36.731	48.876		24.82	, 6
ATOM	327		LEU F			26.084	34.226	48,861		23.69	. 6
ATOM	328	C	LEU F			23.764	36.968	45.389		28.05	6
ATOM	329	Ō	LEU F			24.212	37.623	44.443		24.68	8
ATOM	330	'n	LEU F			22.657	36.236	45.318		26.34	7
ATOM	331	CA	LEU F			21.892	36.147	44.089		30.91	6
ATOM	332	СВ	LEU F			20.565	35.434	44.359		32.50	6
ATOM	333	CG	LEU A			20.637	33.950	44.635	1.00	33.36	6
ATOM	334	CD1	LEU A			19.247	33.370	44.779		33.87	6
ATOM	335	CD2	LEU F			21.340	33.280	43.466		31.72	6
ATOM	336	С	LEU F			21.665	37.524	43.477		29.76	6
ATOM	337	0	LEU F			21.954	37.747	42.301	1.00	29.33	8
ATOM	338	N	LYS F			21.157	38.439	44.298	1.00	29.72	7
MOTA	339	CA	LYS F	306		20.868	39.800	43.864		34.28	6
ATOM	340	CB	LYS A	306		20.293	40.615	45.026	1.00	35.98	6
ATOM	341	CG	LYS P	306		18.919	40.163	45.511		43.35	6
ATOM	342	CD	LYS P	306		18.397	41.127	46.559	1.00	51.50	6
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              CA
                   ARG A 320
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                                              32.822
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ATOM
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ATOM
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ATOM
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              NH2 ARG A 320
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ATOM
                   ARG A 320
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                   ARG A 320
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MOTA
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ATOM
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ATOM
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MOTA	451	СВ			321		30.083				38.01	6
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ATOM	453	CD1	TYR	A	321		29.733	38.296	19.574	1.00	33.85	6
ATÓM	454	CE1	TYR	A	321		30,235	39.037	18.494	1.00	34.49	. 6
ATOM	455	CD2	TYR	A	321		31.966	37.743	20.224	1.00	28.03	6
ATOM	456	CE2	TYR	A	321		32.473	38.475	19.153	1.00	32.69	6
ATOM	457	CZ			321		31.612		•		35.18	. 6
ATOM	458	OH			321		32.107				39.48	8
ATOM	459	C			321		30.085				45,51	6
ATOM	460	Ö			321			34.697	•		48.02	8
ATOM	461	N			322		29.354				44.56	7
ATOM	462	CA	ASP				29.912		•		45.86	6
ATOM	463	CB	ASP				28.804				46.64	6
ATOM	464	CG	ASP				29.050		15.255		40.00	6
ATOM	465		ASP				30.010		14.768		40.00	8
	466		ASP				28.262		14.788		40.00	8
ATOM	467		ASP				30.460					
ATOM		C					29.678		16.755		45.82	6
ATOM	468	0	ASP								45.38	8
ATOM	469	И	PRO				31.800		16.584		46.53	7
ATOM	470	CD	PRO				32.774		16.991		47.16	6
ATOM	471	CA	PRO				32.424		15.890		46.63	6
ATOM	472	CB	PRO				33.921		15.936		43.95	6
ATOM	473	CG	PRO				34.099		16.582		43.93	6
ATOM	474	С	PRO				31.953				48.34	·6
ATOM	475	0	PRO				31.797		13.960		50.84	8
ATOM	476	N	GLU				31.778		13.752		52.39	7
ATOM	477	CA	GLU				31.339		12.370		55.85	6
ATOM	478	CB	GLU				31.035		11.965		55.54	6
ATOM	479	CG	GLU				32.224		12.104		40.00	6
ATOM	480	CD	GLU			•	33.432	34.023	11.310		40.00	6
ATOM	481	OE1	GLU				33.350		10.555		40.00	8
ATOM	482	OE2	GLU				34.506		11,415		40.00	8
ATOM	483	C	GLU				30.077		12.277		54.94	6
MOTA	484	0 N	SER				30.070 29.009	•	11.730		59.81	8 7
ATOM	485						29.009	36.212	12.810		52.95	
ATOM	486	CA	SER						12.839		50.10	6
ATOM	487	CB	SER				26.701				48.23	6
ATOM	488	OG	SER				27.183				48.71	8
ATOM	489	С	SER				27.651		13.659		50.61	6
ATOM	490	0	SER				26.885		13.354		52.19	8
ATOM	491	N	GLU				28.495		14.687		45.64	7
ATOM	492	CA	GLU .				28.567		15.546		43.35	6
ATOM	493	CB	GLU				28.830		14.711		42.74	6
ATOM	494	CG	GLU				30.148		13.945		50.32	6
ATOM	495	CD	GLU				30.451	41.925	13.313		56.34	6
ATOM	496		GLU				31.509		12.649		59.31	8
ATOM	497		GLU				29.656	42.890	13.452	1.00	55.74	8
ATOM	498	С	GLU	A	326		27.288	39.526	16.340	1.00	40.23	6
ATOM	499	0	GLU	A	326		26.695	40.603	16.340	1.00	40.44	8
ATOM	500	N	THR	A	327		26.888	38.474	17.051	1.00	35.90	7
ATOM	501	CA	THR	A	327		25.663	38.506	17.860	1.00	37.29	6
ATOM	502	СВ	THR	A	327		24.466	38.057	17.024	1.00	37.63	6
ATOM	503		THR				24.661	36.709	16.580	1.00	38.12	8
ATOM .	504		THR				24.269	38.965	15.810		39.90	6
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ATOM	505	С	THR	A	327.		25.767	37.562	19.038	1.00	39,49	. 6
ATOM	506	0	THR	A	327		26.284	36.458	18.903	1.00	40.50	8
ATOM	507	N	LEU	A	328		25.250	37.987	20.184	1,00	36.64	7
MOTA	508	CA			328		25.264	37.141	21.381	1.00	37.73	6
ATOM	509	СВ			328		25.148	37.999	22.650	1.00	37.78	6
ATOM	510	CG			328		26.102	39.150	22.843	1,00		6
	511	CD1			328		26.066	39.623	24.272	1.00		6
ATOM		CD2			328		27.481	38.688	22.500		39.85	6
ATOM	512		LEU			·	24.063	36.220	21.244	1.00		6
ATOM	513	С 0			328		23,306	36.337	20.279	1.00		8
MOTA	514				329		23.891	35,317	22.205	1.00	39.73	7
ATOM	515	N					22.785	34.376	22.180	1.00	40.81	6
ATOM	516	CA			329		23.241	32.991	21,699	1.00		6
ATOM	517	CB			329		23.879	33.103	20.421	1.00		8
ATOM	518	OG1	THR				22.026	32.057	21.589		43,52	6
MOTA	519	CG2	THR				22.026	34.245	23.548	1.00	44.31	6
ATOM	520	C .			329		22.166	33.370	24.320		43.72	8
ATOM	521	0	THR				21.237	35.149	23.830	1.00	44.62	7
ATOM	522	N			330		20.532	35.149	25.111	1.00	45.09	. 6
ATOM	523	CA	LEU		330 ⁻		19.677	36.444	25.111	1.00	44.66	. 6
ATOM	524	CB			330		20.436	37.750	25.259	1.00	51.06	6
ATOM	525	CG	LEU		330 330		21.405	37.730	24.104		48.58	6
ATOM	526	CD1	LEU LEU		330		19.466	38.909	25.238		45.18	6
ATOM	527				330		19.656	33.919	25.301		48.06	. 6
ATOM	528	С	LEU LEU		330		19.049	33.422	24.359	1.00	49,33	. 8
ATÓM	529 530	O N	ASN		331		19.618	33.431	26.540	1.00	52.20	7
ATOM	531	CA	ASN		331		18.842	32.256	26.913	1.00	54.41	6
ATOM	532	CB	ASN		331		17.361	32.628	27.009	1.00	54.94	6
MOTA MOTA	533	CG	ASN		331		16.724	32.112	28.269		60.35	- 6
ATOM	534	OD1			331		17.124	32.505	29.383	1.00	61.84	8
ATOM	535	ND2			331		15.750	31.238	28.117		65.92	7
ATOM	536	C			331		19.016	31.108	25.934	1.00	58.00	6
ATOM	537	o	ASN				18.243	30.157	25.941	1.00	60.17	8
ATOM	538	N	GLY				20.063	31.196	25.114	1.00	58,45	7
ATOM	539	CA	GLY				20.341	30.161	24.131		58.55	6
ATOM	540	C	GLY				19.316	30.016	23.021		59.79	6
ATOM	541	0	GLY				19.413	29.094	22.213	1.00	61.32	8
ATOM	542	N	GLU	•			18.346	30.929	22.983		60.28	7
ATOM	543	CA	GLU				17.294	30.883	21.985	1.00	59.13	· 6
ATOM	544	CB	GLU				15.919	30.875	22.662	1.00	62,40	6
ATOM	545	CG	GLU				15.667	29.750	23.658	1.00	75.69	6
ATOM	546	CD	GLU				14.341	29.865	24.346	1.00	80.41	6
ATOM	547	OE1					14.052	30.932	24.945	1.00	79,98	8
ATOM	548	OE2					13.549	28.884	24.329		83.81	8
ATOM	549	C	GLU				17.356	32.090	21.073		57.18	6
ATOM	550	0	GLU				17.239	31.969	19.852		57.50	8
ATOM	551	N	MET				17.512	33.258	21.696		55.20	7
ATOM	552	CA	MET				17.561	34.529	20.980		50.85	6
ATOM	553	СВ	MET				16.751	35.556	21.763		48.70	6
ATOM	554	CG	MET				16.859	36.947	21.212		45.39	6
ATOM	555	SD	MET				15.881	38.186	22.127		44.56	16
ATOM	556	CE	MET				14.229	37.371	22.113		45.25	6
ATOM	557	C	MET				18.956	35.087	20.713		51.59	6
ATOM	558	0	MET				19.739	35.268	21.633		52.52	8
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ATOM
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                   LYS A 342
ATOM
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ATOM	613	CG			342	23.655	50.536	23.240		40.00	6
ATOM	614	CD.			342	24.673	51,109	22.245		34.48	6
ATOM	615	CE			342	25.514	52.229	22.873	1.00	37.54	6
ATOM	616	ΝZ	LYS	Α	342	26.655	52.634	21.987	1.00	42.32	7
ATOM	617	С	LYS	A	342	20.796	49.349	23.774	1.00	38.29	8
ATOM	618	0	LY\$	A	342	20.345	49.711	24.861	1,00	36,23	8
ATOM	619	N	ASN	Α	343	20.223	49.622	22.603	1.00	39.25	7
ATOM	620	CA	ASN	Α	343	18.993	50.385	22.485	1.00	40.19	6
ATOM	621	CB .	ASN	Α	343	18.521	50.373	21.033	1.00	37.96	6
ATOM	622	CG	ASN	Α	343	19.664	50.550	20.052	1,00	39.22	6
ATOM	623	OD1	ASN	A	343	20.428	51.537	20.125	1.00	42.37	8
ATOM	624	ND2	ASN	A	343	19.773	49.612	19.125	1.00	42.19	7
ATOM	625	С	ASN	A	343	17.928	49.748	23.375	1.00	40.12	6
ATOM	626	0	ASN	Α	343	17.010	50.417	23.859	1.00	36.01	8
ATOM	627	N	GLY	A	344	18.073	48.433	23.568	1.00	40.95	7
ATOM	628	CA	GLY	A	344	17.152	47.670	24.394	1.00	39.25	6
ATOM	629	C			344	17.039	48.092	25.842	1.00	38.26	
ATOM.	630	0			344	16.072	47.724	26.512		35.69	8
ATOM	631	N			345	18.017	48.857	26.329	1.00	35.89	7
MOTA	632	CA			345	17.964	49.301	27.706		34.00	,6
ATOM	633	С			345	19.273	49.199			38.64	6
MOTA	634	0			345	19.469	49.888	29.441		38.14	. 8
MOTA	635	N			346	20.170	48.337	27.973		39.52	7
ATOM	636	CA			346	21.444	48.180	28.649		36.05	6
ATOM	637	CB			3,46	22.124	46.876	28.209		35.72	. 6
ATOM	638	CG	LEU		346	21.355	45.617	28.501		34.89	6
ATOM	639	CD1			346	22,295	44.413	28.422		44.09	6
ATOM	640 641	CD2			346 346	20.786	45.721	29.902		34.84 33.52	6 - 6
ATOM ATOM	642	0			346	22.358° 23.267	49.361 49.653	28.396 29.178		35.58	8
ATOM	643	N			347	22.087	50.056	27.295		30.47	7
ATOM	644	CA			347	22.909	51.192	26.931		33.01	6
ATOM	645	C			347	24.360	50.768	26.747	1.00		6.
ATOM	646	0			347	24.669	49.775	26.082	1.00		8
ATOM	647	N	VAL			25.244	51.556	27.355		31.30	7
ATOM	648	CA	VAL	Α	348	26.671	51.325			31.27	6
ATOM	649	СВ	VAL	Α	348		52.294		1.00	31.66	6
ATOM	650	CG1	VAL	Α	348	27.067	52,107	29.631	1.00	20.19	6
ATOM	651	ÇG2	VAL	A	348	28.931	52.138	27.986	1.00	24.77	6
ATOM	652	С	VAL	A	348	27.063	49.892	27.678	1.00	33,84	6
ATOM	653	0	VAL	Α	348	28.095	49.392	27.225	1.00.	29.99	8
ATOM	654	N.	VAL	A	349	26.253	49.227	28.514	1.00	33.31	7
ATOM	655	CA	VAL	Α	349	26.568	47.881	28.906	1.00	32.23	6
ATOM	656	CB	VAL	A	349	25.581	47.259	29.858	1.00	32.59	6
MOTA	657		VAL	А	349	25.865	45.795	29.985	1.00	33.68	6
ATOM	658	CG2	VAL			25.687	47.899	31.213		32.30	6
ATOM	659	С	VAL			26.706	46.985	27.726		34.91	6
ATOM	660	0	VAL			27.583	46.136	27.735		33.73	8
ATOM	661	N	SER			25.875	47.134	26.702		32.81	7
	.662	CA			350	26.001	46.252	25.556		30.10	6
ATOM	663	CB	SER			25.119	46.665	24.411		24.95	6
ATOM	664	OG	SER				45.675	23.394		23.16	8
ATOM	665	С	SER					25.129		31.59	6
ATOM	666	0	SER	Α	350	28.116	45.244	25.284	1.00	37.62	8

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ATOM	667	Ŋ	ASP	A	351	27.945	47.367	24.591		28.60	7
ATCM	668	CA	ASP	A	351	29.351	47.437	24.183		29.82	6
ATOM	669	CB	ASP	Α	351	29.808	48.891	24.105		27.49	6
ATOM	670	CG	ASP	A	351	28.875	49.744	23.303	1.00	30.22	6
ATOM	671	OD1	ASP	Α	351	28.055	50.483	23.909	1.00	32.61	8
ATOM	672	OD2	ASP	Α	351	28.942	49.714	22.044	1.00	30.02	8
ATOM	673	С	ASP	Α	351·	30.173	46.653	25.231	1.00	30.63	6
ATOM.	674	0	ASP	Α	351	30.981	45.792	24.903	1.00	29.54	8
ATOM	675	Ń	ALA	A	352	29.939	46.949	26.503	1,00	25.33	7
ATOM	676	CA	ALA			30.623	46.280	27.602	1.00	28.59	6
	677	CB	ALA			30.072	46.799	28.922	1.00	20.95	6
ATOM	678	C.	ALA			30.492	44.756	27.527	1.00	29.69	6
ATOM	679	ō	ALA			31.481	44.054	27.587	1.00	30,36	8
ATOM	680	N	ILE			29.260	44.260	27.413		27.63	7
ATOM	681	CA	ILE			29.003	42.832	27.326		27.55	6
ATOM	682	СВ	ILE			27.512	42.528	27.429		28.04	6
ATOM	683	CG2	ILE			27.269	41.042	27,289		23.68	6
ATOM	684	CG1	ILE			26.955	42.965			27.33	6
ATOM	685	CD1	ILE			25.452	42.688	28.944	•	26.23	6
ATOM	686	C	ILE			29.534	42.207	26.054		30.88	6
ATOM	687	0	ILE			30.007	41.076	26.068		31.22	8
ATOM		N	PHE			29.426	42.917	24.939		29.86	7
ATOM	689	CA	PHE			29.922	42.369	23.686		31.08	6
ATOM	690	CB	PHE			29.371	43.146	22.487		28.80	6
ATOM	691	CG	PHE			28.029	42.643	21.988		28.80	6
ATOM	692	CD1	PHE			26.872	42.842	22.724		30.96	6
ATOM	693	CD2	PHE			27.950	41.953	20.783		29.45	6
ATOM	694	CEI	PHE		•	25.657	42.360	22.250		27.12	6
ATOM	695	CE2	PHE			26.738	41.470	20.305		25.19	6
ATOM	696	CZ	PHE			25.590	41.672	21.038		28.09	6
ATOM	697	C	PHE			31.444	42.399	23.682		29.17	6
ATOM	698	0	PHE			32.087	41.389	23.398		32.62	8
ATOM	699	N	ASP			32.013	43.569	23.980	1.00	23.86	7
ATOM	700	CA	ASP			33.466	43.739	24.030	1.00	25.34	6
ATOM	701	CB	ASP			33.820	45.053	24.737		21,41	6
ATOM	702		ASP				46.226	23.809	1.00	32.08	6
ATOM	703		ASP			32.979	46.322	22.902		33.58	8
ATOM	704		ASP				47.117	23.968		33.20	8
ATOM	705	C	ASP				42.559	24.781	1.00	27.86	6
ATOM	706	ō	ASP				42.053	24.410		32.42	8
ATOM	707	N ·	LEU				42.128	25.843	1.00	26.84	7
ATOM	708	CA	LEU			33.845	40,993	26.642	1.00	28.66	6
ATOM	709	CB	LEU			32.893	40.747	27.825		25.37	6
ATOM	710	CG	LEU			33.235	39.608	28.755		27.61	6
ATOM	711		LEU		•	34.538	39.917	29.451		25.43	6
ATOM	712		LEU			32.149	39.414	29.765		27.49	6
MOTA	713	C	LEU			33.849	39.779	25.723		30.44	6
	714	0	LEU			34.884	39.160	25.470		31.55	8
ATOM	715	N	GLY			32.661	39.451	25.218		32.69	7
ATOM	716	CA	GLY			32.511	38.304	24.338		29.87	6
	717	C	GLY			33.653	38.157	23.359		33.12	6
ATOM	718	0	GLY			34.302	37.110	23.323		29.41	8
ATOM	719	N	MET			33.876	39.206	22.564		33.31	7
ATOM ATOM	720	CA	MET			34.949		21.580		35.87	, 6
WI OM	120	CA	CILLI	~	J J U	J3.J3J	27.200	_1.500	1.00	55.5.	•

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ATOM	885	N	SER	A	380	30.889	36.555	46.315	1.00	34.49	7	
ATOM	886	ÇA			380	31.498	37.853	46.550	1.00	33.97	6	
ATOM	887	CB	SER	A	380	30.921	38.890	45.576	1.00	31.24	6	
ATOM	888	OĢ	SER	A	380	31.205	38.543	44.230	1.00	39.42	8	
ATOM	889	С	SER	Α	380	31.179	38.239	47.992	1.00	39.69	6	
ATOM	890	0			380	30.029	38.446	48.357	1.00	44.64	8	
ATOM	891	N	SER	A	381	32.214	38.313	48.812	1.00	41.04	. 7	
ATOM	892	CA	SER	Α	381	32.060	38.640	50.216	1.00	44.91	б	
ATOM	893	CB	SER	Α	381	33.324	38.234	50.951	1.00	44.50	6	
ATOM	894	OG	SER	A	381	34.431	39.002	50.510	1.00	45.42	8	
ATOM	895	C	SER	A	381	31.795	40.106	50,499	1.00	44.59	ઠ	
ATOM	896	0	SER			31.476	40.470	51.618	1,00	49.32	8 .	
ATOM	897	N	ASP	A	382	31.939	40.942	49.486	1.00	43.75	7	
MOTA	898	CA	ASP	A	382	31.744	42.362	49,641	1,00	43.93	6	
MOTA	899	CB	ASP	Α	382	32.673	43.111	48.677	1.00	48.39	6	
ATOM	900	CG	ASP	A	382	32.572	42.624	47.263	1.00	53.23	6	•
ATOM	901	OD1	ASP	A	382	32.705	41.400	47.034		56.97	. 8	
MOTA	902	OD2	ASP	A	382	32.358	43.454	46.333		58.91	8	•
ATOM	903	Ċ	ASP	A	382	30.314	42.885	49.507		41.09	6	
ATOM	904	. 0	ASP	Α	382	30.048	44.036	49.845		40.93	8	
ATOM	905	N	ARG			29.397	42.049	49.034		42.63	7	
MOTA	906	CA	ARG			28.036	42.485	48.876		43.32	6	
ATOM	907	СВ	ARG			27.138	41.332	48.443		42.31	6	
MOTA	908	CG	ARG			27.651	40.399	47.352		40.83	6	
ATOM	909	CD	ARG			27.586	40.954	45.925		38.09	6	
MOTA	910	NE	ARG			27.768	39.878	44.975		37.33	7	
ATOM	911	CZ	ARG			28.037	40.058	43.693		38.35	6	
ATOM	912		ARG			28.142	41.292	43,198		33.70	7	
ATOM	913		ARG		*	28.194	38.992	42.918		35.46	7	
ATOM	914	С	ARG			27.523	42.989	50.216		44.96	6	
ATOM	915	0	ARG					51.260		45.60 45.33	·8 7	
ATOM	916	N			384	26.852 26.625		50.223 49.027		46.85	6	
MOTA	917	CD			384			51.446		47.37	6	
ATOM	918	CA			384			51.012		46.90	6	
ATOM	919	CB CG			384	26.075		49.567		46.41	6	
ATOM ATOM	920 921	C	PRO		384			52.049		48.29	6	
ATOM	922	0			384			51.329		48.34	8	
ATOM	923	N			385	25.039		53.383		49.88	7	
ATOM	924	CA	GLY					54.113		50.35	6	
ATOM	925	C			385			54.495		50.70	6	
ATOM	926	0	GLY			23.614		55.244		53.48	8	
ATOM	927	N	LEU					53.955		49,04	7	
ATOM	928	CA			386			54.215		50.53	6	
ATOM	929	CB			386			53.492		45.17	. 6	
ATOM	930	CG			386	27.152	39.592	51.993		48.26	6	
ATOM	931		LEU				39.439	51.404		41.68	6	
ATOM	932		LEU					51.682		38.40	6	
ATOM	933	C	LEU					55.691		52.13	6	
ATOM	934	0	LEU					56.459		53.67	8	
ATOM	935	N	ALA					56,077		53,42	7	,
ATOM	936	CA	ALA			25.976		57.470		56.01	6	

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ATOM ATOM	938	C			387	27.289	37.385	57.659		55.52	6		
MOTA	939	0			387	28.275	37.940	58.134		53.75	8		
ATOM	940	N			388	27.273	36.120	57.253		56.03	. 7		
ATOM	941	CA			388	28.412	35,236	57.370		59.57	6		
ATOM	942	CB			388	27.923	33.803	57.172		59.23	6		
ATOM	943	SG			388	26.397	33.431	58.009		58,64	16		
ATOM	944	C			388	29.482	35,581	56.328		62.18	6	•	
ATOM	945	Ö			388	29.720	34.821	55.400		67.88	8		
MOTA	946	N			389	30.110	36.747	56.495		60.78			
ATOM	947	CA			389	31.173	37,212	55.590		57,70	6		ı
	948	CB			389	31.740	38.567	56.024		57.09	6		ı
ATOM	949	CG1			389	32.795	39.037	55.041		59.03	6		ı
ATOM	950				389	30.640	39.598	56.171		53.98	б		ı
ATOM	951	Ċ			389	32.297	36.182	55.550	1.00	57,77	6		ı
ATOM	952	0			389	32.358	35.336	54.662	1.00	60.94	8		ı
ATOM	953	N			390	33.182	36,292	56.528	1.00	52.68	. 7	•	ı
ATOM	954	CA	ALA	A	390	34.347	35.431	56.684	1.00	48.41	6		ı
ATOM	955	CB	ALA	A	390	34.703	35.321	58.185	1.00	45.19	6		ı
ATOM	956	С	ALA	A	390	34.224	34.040	56.082		47.63	6	,	ı
ATOM	957	Ο.	ALA	Α	390	35.107	33.597	55.348		51.95	8	•	ı
ATOM	958	N	ARG	Α	391	33.117	33.366	56.391		47.11	7		ı
ATOM	959	CA	ARĢ			32.879	32.018	55.885		51.64	6		ı
ATOM	960	CB	ARG			31.520	31.498	56.383		54.22	6		ı
ATOM	961	CG	ARG			31.267	30.012	56.059		64.20	6		ı
ATOM	962	CD	ARG			.29.930	29.489	56.602		73.80	6		ı
ATOM	963	NE	ARG			29.787	28.044	56.454		79.76	7		ı
ATOM	964	CZ	ARG			30.573	27.140	57.043		84.27	6		ı
ATOM	965		ARG			31.598	27.535	57.806		85.28 86.84	· · 7		ı
ATOM	966		ARG ARG			30.340 32.922	25.840 31,986	56.849 54.358		48,18	6		ı
ATOM	967 968	С 0	ARG			33.494	31.080			49.57	8		ı
ATOM ATOM	969	N	ILE			32.281	32.993	53.762		45.01	7		ı
ATOM	970	CA	ILE			32.196	33.148			48.77	6		ı
ATOM	971	СВ	ILE			31.224		51.963		46.45	6		ı
ATOM	972		ILE			31.241	34.582	50.479		42.35	6		ı
ATOM	973		ILE			29.791	33.953	52.402		49.69	6		ı
ATOM	974		ILE			28.792	35.039	52.113		51.09	. 6		ı
ATOM	975	C	ILE			33.554	33.356	51.641		50.90	6		ı
ATOM	976	0	ILE			33.914	32.605	50.732	1.00	52,21	8		ı
ATOM	977	N	GLU			34.298	34.374	52.071	1.00	50.43	7		ı
ATOM	978	CA	GLU	Α	393	35.592	34.684	51.471	1.00	50.30	6		ı
ATOM	979	CB	GLU	Α	393	36.437	35.561	52.387	1.00	53.97	6		ı
ATOM	980	CG	GLU	Α	393	36.558	36.966	51.844	1.00	62.18	6		ı
ATOM	981	CD	GLU	A	393	37.546	37.777	52.564		67.69	6		I
ATOM	982	OE1	GLU	А	393	38.149	38.741	52.119		66.42	8		I
ATOM	983	OE2	GLU	A	393	37.856	37.640	53,729		70.64	8		
ATOM	984	С	GLU			36.341	33.429	51.230		49.31	6		
ATOM	985	0	GLU			36.755	33.089	50.125		49.53	8		
MOTA	986	N	LYS			36.552	32.730	52.303		46.07	7		
ATOM .	987	CA	LYS			37.265	31.543	52.078		45.76	6		
ATOM	988	CB	LYS			37.396	30.800	53.373		43.85	6		ı
ATOM	989	CG	LYS			38.207	31.617	54.394		40.00	6		I
MOTA	990	CD	LYS	А	394	39.372	32.374	53.705	1.00	40.00	6		

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ATOM	1048	0	LEU	A	400	41.367	29.632	41.821	1.00	40.38	8
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ATOM	1050	CA	LEU	A	401	42.605	28.449	43.988	1.00	43.48	6
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ATOM	1052	CG	LEU	A	401	44.105	26.899	45.354	1.00	51.39	6
ATOM	1053	CD1	LEU	Α	401	45.374	27.749	45.143	100	50.11	6
ATOM	1054	CD2	LEU	A	401	44.205	26.122	46.662	1.00	49.30	6
ATOM	1055	С	LEU	Α	401	42.324	27.340	42.981	1.00	41.62	6
ATOM .	1056	0	LEU	Α	401 .	43.052	27.180	42.004	1.00	45.14	8
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ATOM	1059	СB	ALA	Α	402	39.522	24.928	42.834	1.00	30.70	6
ATOM	1060	С	ALA	A	402	40.798	25.909	40.929	1.00	28.88	6
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ATOM	1064	СВ	PHE	A	403	39.379	29.019	39.438	1.00	27.03	6
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AŢOM	1066	CD1	PHE	A	403	38.228	30.758	38.033	1.00	25.55	6
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MOTA	1068	CE1	PHE	A	403	37.784	31.266	36.808	1.00	27.90	6
ATOM	1069	CE2	PHE	A	403	38.780	29.416	35.694	1.00	22.56	6
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ATOM
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	MOTA	1263	CB			424		37.446		38.205	32.658		30.56	6
	ATOM	1264	CG			424		38.394		38.192	31.455		30.07	
	ATOM	1265	CD			424		38.050		39.326	30.488		33.22	б
	ATOM	1266	CE			424		39.032		39.433	29.322		28.75	6
	ATOM	1267	NZ			424		40.394		39.942	29.707		31.01	7
	MOTA	1268	C			424		36.418		39.558	34.524		29,26	6
•	ATOM	1269	0			424	,	35.307		39.998	34.289		30.22	8
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	ATOM	1271	CA			425		35.897		39.107	36.866		28.91	6
	MOTA	1272	CB			425		36.541		38.460	38.094		29.44	6
	MOTA	1273		VAL				35.673		38.642	39.320		28.81	6
	MOTA	1274		VAL				36.764		36.985	37.849		31.22	6
	MOTA	1275	C			425		35.512		40.548	37.161		32.03	б
	ATOM	1276	0			425		34.350		40.839	37.429		31.95	8
	MOTA	1277	N			426		36.496		41.444	37.124		33.61	7
	MOTA	1278	CA			426		36.248		42.866	37.356		30.76	_. 6
**	MOTA	1279	CB			426		37.559		43,670	37.360		32.34	
	MOTA	1280	OG1			426		38.209		43.565	38.630		33.07	8
	ATOM	1281	CG2			426		37.302		45.131	37.015		25.40	6
	ATOM	1282	ĻĊ			426		35.363		43.324	36.211		32.53	6
	MOTA	1283	0	THR				34.357		44.006	36.405		35.19	8
•	MOTA	1284	N	ASP				35.763		42.929	35.006		28.83	7
	ATOM	1285	CA	ASP				35.011		43.272	33.810		35.12	6
	ATOM	1286	CB	ASP				35,556		42.524	32.578		39.14	б
	ATOM	1287	CG	ASP				36.837		43.103	32,057		45.80	6
	ATOM	1288		ASP				36.982		44.346	32.024		41,97	8
	MOTA	1289		ASP				37.735		42.333	31.616		50.06	8
	ATOM	1290	C	ASP			•	33.537		42.925	34.028		33.94	
	ATOM	1291	0	ASP				32.659		43.712	33.702		38.02	8
	ATOM	1292	N	LEU				33.283		41.745	34.584		27.15	7
•	ATOM	1293	CA	LEU				31.925		41.293	34.850		29.99	6
	ATOM	1294	CB	LEU				31.924		39.786	35.133		22.49	6
	ATOM	1295	CG	LEU				32.104		38.873	33.939		25.54	6
	ATOM	1296		LEU				32.202		37,421	34.353		20.60	6
	ATOM	1297		LEU				30.920		39.083	33.029		17.24	6
	ATOM	1298	C .	LEU				31.276		42.057	35.991		28.94	6
	ATOM	1299	0	LEU				30.082		42.306	35.939		31.26	8
	ATOM	1300	N.	ARG				32.059		42.423	37.011		27.64	7
	ATOM	1301	CA	ARG				31.527		43.162	38.147		28.13	6
	ATOM	1302	CB	ARG				32.564		43.298	39.264		29.59	6
	ATOM	1303	CG	ARG				32.818		42.040	40.080		34.85	6
	ATOM	1304	CD	ARG				33.588		42.360	41.367		47.18	6
	ATOM	1305	NE	ARG				34.093		41.175	42.049		57.93	7
	ATOM	1306	CZ	ARG				33.327		40.210	42.547		63.62	6
	ATOM	1307		ARG				31.998		40.270	42.396		60.71	7
	ATOM	1308		ARG				33.900		39.165	43.150		62.38	7
	ATOM	1309	С	ARG				31.099		44.536	37.707		29.81	6
	ATOM	1310	0	ARG				30.044		45.009	38.101		30.81	8
	ATOM	1311	N	MET				31.941		45.176	36.901		29.64	7
	ATOM	1312	CA	MET				31.644		46.502	36.383		34.72	6
	ATOM	1313	CB	MET				32.745		46.955	35.434		34.97	6
	ATOM.	1314	CG	MET	A	430		33.937	•	47.597	36.080	1.00	45.34	6

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	ATOM	1315	SD	MET	A	430	33.520	49.120	36.937		52.55	16
	ATOM	1316	CE	MET	A	430	32.942	50.174	35.585		55.56	6
	ATOM	1317	C	MET	A	430	30.315	46.455	35,634		34.01	6
	ATOM	1318	0	MET	A	430	29.455	47.295	35.854		37.29	8
	ATOM	1319	N	ILE	Α	431	30.180	45.468	34.740		29.99	7
	ATOM	1320	CA	ILE	A	431	28.954	45.269	33,969		28.82	6
	ATOM	1321	CB	ILE	A	431	28.962	43.936	33.211		27.39	6
	ATOM	1322	CG2	ILE	A	431	27.622	43.671	32.572	1.00	23.87	6
	ATOM	1323	CG1	ILE	A	431	30.044	43.920	32.138	1.00	25.56	6
	ATOM	1324	CD1	ILE	A	431	29.989	42.703	31.244		17.29	6
	ATOM	1325	С	ILE	A	431	27.769	45.269	34.907		29.49	6
	ATOM	1326	0	ILE	A	431	26.810	45.993	34.712		24.19	8
	ATOM	1327	N	GLY	A	432	27.839	44.435	35.936		25.25	7
	ATOM	1328	CA	GLY	A	432	26.748	44.343	36.890		30.38	6
	ATOM	1329	С	GLY	A	432	26.494	45.671	37,554		32.75	6
	ATOM	1330	0	GLY	A	432	25.411	46.206	37.469		36,38	8
	ATOM	1331	N	ALA	A	433	27.514	46.189	38.221		26.77	. 7
	ATOM	1332	CA	ALA	A	433	27.428	47.459	38.910		26.48	6
	ATOM	1333	CB			433 ·	28.836	47.970	39.203		19.90	6
	ATOM	1334	С	ALA			26.663	48.502	38.114		30.73	6
	ATOM	1335	0	ALA		•	25.773	49.164	38.635		31.60	8
	MOTA	1336	N	CYS			27.027	48.654	36.854		33.22	7
	ATOM	1337	CA	CYS			26.371	49.616	35.996		34.34	6
	ATOM	1338	CB	CYS			27.047	49.612	34,711		35.20	6
	MOTA	1339	SG	CYS			27.789	50.811	34.285		54.48	16
	ATOM	1340	С	CYS			24.974	49.198	35.612		34.09	. 6
	ATOM	1341	0	CYS			24.107	50.040	35.415		34.89	8
	ATOM	1342	N	HIS			24.756	47.898	35.447		34.30	7
	ATOM	1343	CA	HIS			23.453	47.423	35.042		35.44	. 6
	ATOM	1344	CB	HIS			23.404	45,904	35.104 34.675		31.76 32.03	6 6
	ATOM.	1345	CG	HIS			22.099	45.351 44.790	33.519		28.61	6
	MOTA	1346		HIS			21,697 20.941	45.482	35.452		28.48	7
	ATOM	1347 1348		HIS HIS			19.912	45.025	34.759		33.27	6
	ATOM			HIS			20.345	44.597	33.583		31.57	7
	ATOM	1349	C	HIS			22.400	47.974	35.972		32.74	6
	ATOM	1350 1351	0	HIS			21.304	48.284	35.565		32.87	8
	ATOM	1352	N	ALA			22.777	48.046	37.241		31.01	7
	ATOM ATOM	1353	CA	ALA			21.910	48.563	38.266		29.91	6
	ATOM	1354	CB			436	22.661	48.595	39.580		21.23	6
		1355	C	ALA			21.475	49.969	37.884		33.86	6
	ATOM ATOM	1356	0	ALA			20.296	50.298	37.910		36.10	8
	ATOM	1357	N	SER			22.453	50.795	37.532		35.19	7
	ATOM	1358	CA	SER			22.172	52.167	37.140		33.03	6
	ATOM	1359	CB	SER			23.441	52.815	36.603		35.31	6
	ATOM	1360	OG	SER			23.203	54,151	36.193		44.99	8
	ATOM	1361	C	SER			21.110	52.158	36.055		38.39	6
	ATOM	1362	0	SER			20.049	52.745	36.204		37.54	8
	MOTA	1363	N	ARG			21.432	51.483	34.956		37.32	7
	ATOM	1364	CA	ARG			20.534	51.379	33.821		39.30	6
	ATOM	1365	CB	ARG			21.114	50.402	32.786		42.97	6
-	ATOM	1366	CG	ARG			22.343	50.911	32.051		41.72	6
	ATOM	1367	CD	ARG			21.955	52.134	31.251		45.23	6
	ATOM	1368	NE	ARG			20.964	51.839	30.237		45.66	7
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•	ATOM	1369	CZ	ARG				20.063	52.718	29.809		49.71	6	•
	ATOM	1370	NH1					20.046	53.958	30.318		50.91	7	
	ATOM	1371		ARG				19.198	52.354	28.865		46.86	7	
	MOTA	1372	С	ARG				19.147	50.922	34.240		42.37	6	
	MOTA	1373	0	ARG				18.147	51.297	33.625		40.58	8	
	ATOM	1374	N	PHE				19.080	50.120	35.298		42.25	7	
	MOTA	1375	CA	PHE				17.803	49.624	35.763		42.81	6	
	ATOM	1376	CB,	PHE				17.975	48.794	37.013		42.18	6	
	ATOM	1377	CG	PHE				16.739	48.053	37.413		42.48	6	
	MOTA	1378		PHE				16.198	47.111	36.562		47.09	6	
	MOTA	1379		PHE				16.105	48.320	38.613		39.76	. 6	
	MOTA	1380	CE1					15.047	46.427	36,905		49.17	6	. 0
	ATOM	1381	CE2					14.940	47.630	38.963		45.10	6	
	MOTA	1382	CZ	PHE				14.411	46.683	38.098		46.36	6	
	ATOM	1383	С	PHE				16.921	50.803	36,075		44.79	6	
	ATOM	1384	0	PHE				15.830	50.903	35.554		40.26	8	
	ATOM	1385	N	LEU				17.410	51.681	36.951		42.77	. 7	
	ATOM	1386	CA	LEU				16.660	52.871	37.344		42.96	6	
0.*	ATOM	1387	CB	LEU				17.546	53.824	38,150	-	37.19	6	
	MOTA	1388	CG	LEU				17.943	53.297	39.500		36.97	6	
	ATOM	1389		LEU				18.620	54.389	40.316		33.65	6	
	ATOM	1390		LEU				16.679	52.837	40.216		35.42	6	
	MOTA	1391	С	LEU				16.025	53.596	36.168		45.47	6	•
	ATOM	1392	0	LEU				14.809	53.750	36.126		52.48	. 8	
	MOTA	1393	N	HIS				16.836	54.060	35.223		49.15	7	
	ATOM	1394	CA	HIS				16.277	54.725	34.063		54.76	6	
	ATOM	1395	CB	HIS				17.329	54.955	33.031		56.68	6	
	ATOM	1396	CG	HIS				18.134	56.161	33.282		62.73	6	
	MOTA	1397		HIS				18.468	57.216	32.499		65.73	6	
	MOTA	1398		HIS				18.701	56.431	34.538		66.01	7	
	MOTA	1399		HIS				19.332	57.594	34.473		65.55	·6	
	ATOM	1400		HIS			•	19.205	58.085	33.255		60.09	7	
	ATOM	1401	С	HIS				15.244	53.822	33.481		55.93	6	
	MOTA	1402	0	HIS				14.149	54.263	33.170		57.33	8	
	ATOM	1403	N	MET				15.605	52.549	33.313		57.81	7	
	ATOM	1404	CA	MET				14.661	51.583	32.778		59.11	. 6	
	ATOM	1405	CB	MET				15.191	50.154	32.922		55.93	6	
	ATOM	1406	CG	MET				16.336	49.813	32.022		58.52	6	
	ATOM	1407	SD	MET .				16.681	48.008	31.851		60.99	16	
	ATOM	1408	CE	MET .				17.085	47.602	33.581		52.61	6	
	ATOM	1409	C	MET .				13.339	51.727	33.534		60.31	6	
	ATOM	1410	0	MET .				12.266	51.560	32.968		58.18	8	
	ATOM	1411	N	LYS .				13.425	52.054	34.818		61.45	7	
	ATOM	1412	CA	LYS .				12.236	52.202	35.626		64.90	6	
	ATOM	1413	CB	LYS .				12.608	52.141	37.090		64.40	6	
	ATOM	1414	CG	LYS .				11.461	51.748	37.959		69.12	6	
	ATOM	1415	CD	LYS .				12.068	51.551	39.257		71.14	6	
	ATOM	1416	CE	LYS				11.368	51.897	40.091		73.43	6	
	ATOM	1417	NZ.	LYS .				11.883	51.712	41.415		67.97	7	
	ATOM	1418	Ç	LYS .				11.513	53.514	35.348		67.29	6	
	MOTA	1419	0	LYS .				10.390	53.700	35.780		67.90	8	
•	ATOM	1420	N	VAL.				12.171	54.429	34.629		66.57	7	
	ATOM	1421	CA	VAL /				11.575	55.719	34.297		64.76	6	
	ATOM	1422	CB	VAL .	A	444		12.569	56.869	34.560	1.00	62.76	6	

ATOM	1423		VAL			11.952	58.195	34.174		64.00	6
Mota	1424	CG2	VAL			12.999	56.891	36.035		59.27	6
ATOM	1425	C	VAL	Ą	444	11.043	55.730	32.861	1.00	68.61	6
ATOM	1426	0	VAL	A	444	9.937	56.210	32,612		70.60	8
ATOM	1427	N	GLU	A	445	11.814	55.173	31.935	1.00	70.71	7
MOTA	1428	CA	GLU	A	445	11.457	55.152	30.514	1.00	71,45	6
ATOM	1429	CB	GLU	A	445	12.725	55.255	29.664	1.00	72.36	6
MOTA	1430	CG	GLU	A	445	13.598	56.429	30.022	1,00	40.00	6
ATOM	1431	CD	GLU	A	445	14.875	56.472	29.239	1.00	40.00	6
ATOM	1432	OE1	GLU	A	445	15.155	55.565	28.414	1.00	40.00	8
ATOM	1433	OE2	GLU	A	445	15.663	57.430	29.430	1.00	40.00	8
MOTA	1434	C	GLU	A	445	10.724	53.912	30.049	1.00	71.46	6
ATOM	1435	0	GLU	A	445	10.536	53.701	28.844	1.00	73.02	8
MOTA	1436	N	CYS	A	446	10.301	53.099	30.999	1.00	71.12	7
ATOM	1437	CA	CYS	Ą	446	9.628	51.899	30.634	1.00	70,83	6
ATOM	1438	CB	CYS			10.595	50.719	30.687	1,00	71.05	6
ATOM	1439	SG	CYS			12.009	50.842	29.573	1.00	72.83	16
ATOM	1440	C.	CYS			8.454	51.671	31.535	1.00	71.91	6
MOTA	1441	Q .	CYS			8.495	52.014	32.728	1.00	72.06	8
ATOM	1442	N	PRO			`7.372	51.133	30.978	1.00	73.12	7
ATOM	1443	CD	PRO	A	447	7.267	50.764	29.560	1.00	72,88	6
ATOM	1444	CA	PRO	A	447	6.150	50.853	31.740	1.00	74.22	6
ATOM	1445	СВ	PRO			5.187	50.281	30.714	1.00	72.98	6
ATOM	1446	CG	PRO	A	447	5.875	50.271	29.437	1.00	74,77	6
ATOM	1447	С	PRO			6.435	49.843	32.831		75.94	6
ATOM	1448	0	PRO	Α	447	7.181	48.908	32.612	1,00	76.67	. 8
ATOM	1449	N	THR	Α	448	5.820	50.002	33,997	1.00	76.91	٠٦
ATOM	1450	CA	THR	Α	448	6.024	49.066	35.113	1.00	78.24	6
MOTA	1451	CB ·	THR	A	448	5.528	49.734	36,401	1.00	81.33	. 6
ATOM	1452	OG1	THR	A	448	4.105	49.917	36.328	1.00	84.46	8
MOTA	1453	CG2	THR	A	448	6.192	51.081	36.585	1.00	83.51	6
MOTA	1454	C	THR	Α	448	5.113	47.912	34.755	1.00	77.42	6
ATOM	1455	0	THR	Α	448	4.915	46.995	35.519	1.00	77.65	8
ATOM	1456	N·	GLU	А	449	4.539	48.021	33.565	1.00	76.29	7
ATOM	1457	CA	GLU	A	449	3.630	47.023	33.024		75.03	6
ATOM	1458	CB	GLU	A	449	2.600	47.773	32.191	1.00	74.62	6
ATOM	1459	CG	GLU	A	449	2.145	47.051		1.00	40.00	6
MOTA	1460	CD	GLU	A	449	1.297	47.889	30.178	1.00	40.00	6
ATOM	1461	OE1	GLU	A	449	1.479	49.137	30,146	1.00	40.00	8
MOTA	1462	OE2	GLU	A	449	0.424	47.322	29.497	1.00	40,00	8
ATOM	1463	С	GĻU	Α	449	4.434	46.036	32.179	1.00	73.49	6
ATOM	1464	0	GLU	A	449	3.882	45.142	31.559	1.00	70.24	8
MOTA	1465	N	LEU	A	450	5.747	46.224	32.161	1.00	70.80	7
ATOM	1466	CA	LEU	A	450	6.608	45.347	31.378	1.00	68.82	6
MOTA	1467	CB	LEU	А	450	7.301	46.154	30.277	1.00	71.91	6
MOTA	1468	CG	LEU	A	450	6.464	46.819	29.217	1.00	76.62	б
MOTA	1469	CDl	LEU	A	450	7.337	47.662	28.328	1.00	77.95	6
ATOM	1470	CD2	LEU	A	450	5.786	45.750	28.415	1.00	76.46	6
MOTA	1471	С	LEU	A	450	7.669	44.673	32.243	1.00	66.22	6
ATOM	1472	0	LEU	A	450	8.427	43.841	31.752	1.00	66.01	8
ATOM	1473	N	PHE	A	451	7.705	45.039	33.530	1.00	61.96	7
ATOM	1474	CA	PHE	A	451	8.681	44.506	34.480	1.00	58.44	6
ATOM	1475	CB	PHE	A	451	9.041	45.562	35.540	1.00	61.34	6
ATOM	1476	CG	PHE	Α	451	9.873	46,717	35.008	1.00	63.02	6

ATOM	1477	CD1	PHE			9.426	47.509	33.963	1.00 62.92	б
atom	1478	CD2	PHE	A	451	11.089	47,017	35.593	1.00 63.07	б
MOTA	1479	CE1	Phe	A	451	10.199	48.598	33.521	1.00 65.12	б
ATOM	1480	CE2	PHE	A	451	11,860	48.102	35.156	1.00 64.66	6
MOTA	1481	CZ	PHE	A	451	11.410	48.897	34.118	1.00 67.12	6
ATOM	1482	C	PHE	A	451	8.259	43.264	35.260	1.00 56.41	6
ATOM	1483	0	PHE	A	451	7.641	43.392	36.331	1,00 56.56	8
ATOM	1484	N	PRO	A	452	8.555	42.045	34.755	1.00 53.28	
ATOM	1485	CD	PRO	A	452	9.177	41.689	33,481	1.00 50.46	6
ATOM	1486	CA	PRO	A	452	8.153	40.859	35.543	1.00 50.26	
ATOM	1487	CB	PRO	A	452	8.739	39,680	34,780	1.00 49.19	
ATOM	1488	CG	PRO	A	452	9.178	40.206	33.482	1.00 45,89	
ATOM	1489	C			452	8.770	40.999	36.935		6
ATOM	1490	0			452	9.867	41.529	37.094	1.00 52.35	
ATOM	1491	N			.453	8.139	40.425	37.947	1.00 51.50	7
ATOM	1492	CD			453	7.001	39.542	37.797	1.00 49.66	6
ATOM	1493	CA			453	8.610	40.528	39.323	1.00 50.89	6
ATOM	1494	CB			453	7.675	39.659		1.00 51.49	6
ATOM	1495	CG			453	6.703	39.141	39.185	1.00 50.82	6
ATOM	1496	C			453	10.015	40.084	39.532	1.00 50.99	6
ATOM	1497	ō			453	10.876	40.900	39.838	1.00 54.17	8
ATOM	1498	N			454	10.255	38.781	39.423	1.00 51.21	7
ATOM	1499	CA	LEU			11.585	38.298	39.674	1.00 47.17	6
ATOM	1500	СВ	LEU			11.813	36.962	38.975	1.00 44.44	. 6
ATOM	1501	CG	LEU			13.167	36.375	39.289		6
ATOM	1502	CD1				13.524	36.638	40.720	1.00 35.93	6
ATOM	1503	CD2				13.169	34.907	38.992	1.00 34.79	6
ATOM	1504	C	LEU			12.541	39.375	39.182	1.00 42.25	6
ATOM	1505	ō	LEU			13.477	39.718	39.886	1.00 40.82	8
ATOM	1506	N			455.		39.957	38.011	1.00 39.29	7
ATOM	1507	CA	PHE			13.133	41.005	37.473	1.00 41.81	6
ATOM	1508	СВ	PHE			12,527	41.592	36.192	1.00 47.22	6
ATOM	1509	CG	PHE			13.433	42.565	35.467	1.00 56.97	6
ATOM	1510	CD1				14.715		35.135	1.00 57,23	6
ATOM	1511	CD2	PHE	Α	455	12.999	43.840	35.126	1.00 59.40	-6
MOTA	1512	CE1	PHE	Α	455	15.557	43.059	34.466	1.00 56.58	6
ATOM	1513		PHE			13,848	44.716	34.452	1.00 61.80	6
ATOM	1514	CZ	PHE			15.129	44.322	34.126	1.00 59.94	6
ATOM	1515	С	PHE			13.273	42.085	38.534	1.00 45.12	6
ATOM	1516	0	PHE	Α	455	14.361	42,323	39.034	1.00 39.95	8
ATOM	1517	N	LEU	A	456	12.155	42.735	38.849	1.00 43.92	7
ATOM	1518	CA	LEU			12.122	43.803	39.840	1.00 44.08	6
ATOM	1519	СВ	LEU			10.680	44.251	40.093	1.00 50.20	6
ATOM	1520	CG	LEU			10.062	45.242	39.144	1.00 55.79	6
ATOM	1521	CD1				8.598	45.432	39.450	1.00 54.70	6
ATOM	1522		LEU			10.807	46.548	39.295	1.00 53.01	6
ATOM	1523	С	LEU			12.739	43.355	41.136	1.00 44.65	6
ATOM	1524	0	LEU			13.597	44.022	41.685	1.00 45.93	8
ATOM	1525	N	GLU			11.973	41.761	41.851	1.00 44.56	7
ATOM	1526	CA	GLU			12.475	41.179	43.105	1.00 46.37	6
ATOM	1527	C	GLU			14.005	41.236	43.132	1.00 43.60	6
ATOM	1528	Ö	GLU			14.583	41.724	44.117	1.00 42.69	8
ATOM	1529	СВ	GLU			12.024	39.723	43.223	1.00 50.16	6
ATOM	1530	CG	GLU			11.114	39.476	44.427	1.00 20.00	6
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        1536
              CB
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                   PHE A 459
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                   PHE A 459
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ATOM
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	ATOM	16	0	PRO B		-24.350	70.045	38.696	1.00		8
	ATOM	17	N	GLU B		-26.058	69,424	40.032	1.00		7
	ATOM	18	CA	GLU B		-27.081	69.290	39.003	1.00		6
	ATOM	19	CB	GLU B		-27.895	68.004	39.265	1.00		6
	ATOM	20	CG	GLU B		-27.032	66.709	39,286	1.00		6
•	ATOM	21	CD	GLU B		-27.807	65.421	39.199	1.00		6
	ATOM	22	OE1	GLU B	213	-28.847	65.244	39.886	1.00	59.18	8
	ATOM	23	OE2	GLU B	213	-27.382	64.516	38,442	1.00	49.06	8
	ATOM	24	С	GLU B	213	-27.924	70.576	39.080	1.00	45.96	6
	MOTA	25	0	GLU B	213	-27.624	71.467	39.859	1.00	43.13	8
•	ATOM	26	N	PRO B	214	-28.987	70.698	38.308	1.00	46.52	7
	MOTA	27	CD	PRO B	214	-29.484	69.635	37.446	1.00	46.44	6
•	ATOM	28	CA	PRO B		-29.843	71.907	38.302		47.52	6
	MOTA	29	CB	PRO B	214	-30.799	71.639	37.210	1.00		6
	MOTA	30	CG	PRO B		-30.530	70.257	36,805	1.00		6
	MOTA	31	С	PRO B		-30.574	72.330	39.535	1.00		6
	ATOM	32	0	PRO B		-30.597	71.595	40.483	1.00		8
**	MOTA	33	N	THR B		-31.180	73.515	39.506	1.00		7
	MOTA	34	CA	THR B		-31.965	74.036	40.652	1.00		6
,	MOTA	35	CB	THR B		-31.443	75.420	41.091	1.00		6
	MOTA	36	OG1	THR B		-32.249	76.464	40.534		52.26	8
	MOTA	37	CG2			-30.011	75.617	40.659	1.00		6
	ATOM	38	C	THR B		-33.386	74.239	40.114	1.00		6
	ATOM	39	0	THR B		-33.562	74.868 73.741	39.078 40.829	1.00		8 7
	ATOM	40	N	ASP B		-34.387 -35.795	73.741	40.629	1.00		6
	ATOM ATOM	41 42	CA CB	ASP B		-36.674	74.005	41.650	1.00		. 6
	ATOM	43	CG	ASP B		-37.675	72.981	41.710	1.00		6
	ATOM	44	OD1	ASP B		-38.228	72.588	40.652	1.00		8
	ATOM	45		ASP B		-37.983	72.567	42.830	1.00		8
	MOTA	46	c	ASP B	•	-35.920	75.123	39.648	1.00		6
	MOTA	47	0	ASP B		-36.847	75.317	38.827	1.00	•	8
	ATOM	48	N	GLU B		-34.954	75.979	39.984	1.00		7
	ATOM	49	CA	GLU B		-34.851	77.259	39.353	1.00	53.37	6
1	ATOM	50	СВ	GLU B	217	-34.104	78,264	40.251	1.00	51.02	6
	ATOM	51	CG	GLU B	217	-34.151	79.689	39.679	1.00	40.00	6
	MOTA	52	CD	GLU B	217	-34.301	80.745	40.739	1.00	40.00	6
	ATOM	53	OE1	GLU B	217	-34.089	80.443	41.945	1.00		8
•	MOTA	54	OE2	GLU B		-34.625	81.921	40.411	1.00		8
	ATOM	55	С	GLU B		-34.232	77.163	37.957	1.00		6
. •	ATOM	56	0	GLU B		-34.815	77.612	37.018	1.00		8
	ATOM	57	N	GLU B		-33.063	76.572	37.839	1.00		7
	ATOM	58	CA	GLU B		-32.318	76.385	36.608	1.00		6
	MOTA	59	CB	GLU B		-30.965	75.793	36,981	1.00		6
•	ATOM	60	CG	GLU B		-30.065	76.728	37.801	1.00		6
	MOTA	61	CD	GLU B		-28.713	76.159	38.072	1.00		6
	ATOM	62	OE1	GLU B		-28.606	74.967	38.449	1,00		8
	MOTA	63	OE2	GLU B		-27.707	76.901	37.945	1.00		8
	ATOM	64	С	GLU B		-33.014	75.475	35.610	1.00		.6
•	MOTA	65	0	GLU B		-32.935	75.686	34.405	1.00		8
	ATOM	66	N	TRP B		-33.669	74.439	36.131	1.00		7
	ATOM	67 68	CA	TRP B		-34.368	73.490	35.290	1.00		6
	ATOM	68	CB	TRP B	713	-35.046	72.408	36.119	1.00	40.42	6

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ATOM	69	ÇG	TRP	В	219		-34.195	71.230	36.374		54.61	6
ATOM	70	CD2	TRP	В	219		-34.048	70.120	35.478	1.00	\$5.24	త్
ATOM	71	CE2	TRP	В	219		-33.076	69.248	36.063	1.00	53.67	6
ATOM	72	CE3	TRP	В	219		-34.615	69.771	34.252	1.00	54.55	6
MOTA	73	CD1	TRP	В	219		-33.399	71.019	37.415	1.00	55.75	6
ATOM	74	NE1					-32.697	69.838	37.236		54.43	7
ATOM	75	CZZ					-32.635	68.075	35.431		52.54	6
ATOM	76	CZ3			219		-34.214	68.603	33.643		55.17	6
ATOM	77	CH2			219		-33.234	67.758	34.214		55.59	6
ATOM	78	C			219		-35.409	74.199	34.459		47.32	
ATOM	70 79	Ö			219		-35.561	73.914	33.277		43.56	8
MOTA	80	N			220		-36.126	75.130	35.084		49.91	7
	81	CA			220		-37.158	75.130	34.402		53.57	
ATOM	82											6
ATOM		CB	GLU GLU		220		-37.811 -39.251	76.820	35.373		58.18	6
ATOM	83	CG			220		-39.231	76.812	35.221		73.13	6
ATOM	84	CD			220			76.858	36.489		80,06	6
ATOM	85	OE1					-39.485	75.995	37.324		82.12	8
MOTA	86	OE2			220		-40.635	77.740	36.718		82.78	8
ATOM	87	C	GLU				-36.539	76.645	33.250		50.51	6
ATOM	88	0	GLU				-37.160	76.793	32.195		49.94	8
ATOM	89	N	ĻEU				-35.312	77,135	33.455		43.71	7
ATOM	. 90	CA	LEU				-34.604	77.884	32.411		42.81	6
ATOM	91	CB	LEU		221		-33.214	78.324	32.865		39.21	
ATOM	92	CG	LEU				-32.321	78.833	31.754		36.34	6
ATOM	93	CD1					-33.073	79.843	30.927	*	36.93.	
ATOM	94		LEU			•	-31.058	79.446	32.331		24.18	6
ATOM	95	C	LEU				-34.454	77.011	31.192		43.46	б
ATOM	96	0	LEU				-34.819	77.406	30.104		45.25	8
ATOM	97	N	ILE				-33.878	75.829	31.398		39.09	. 7
ATOM	98	CA	ILE				-33.687	74.857	30.330		35.47	6
ATOM	99	CB	ILE				-33.224	73.516 72.488	30.871		33.74	6
ATOM	100	CG2 CG1	ILE		222 222		-33.204	73.631	29,776		28.86 33.33	6
ATOM	101 102	CD1	ILE				-31.840 -31.435	72.419	31.493 32.264		34.85	6
ATOM	102	CDT	ILE				-34.991	74.627	29.598		34.26	6 6
ATOM			ILE					74.827			31.90	
ATOM	104	0							28.392			8 7
ATOM		N	LYS				-35.992 -37.300	74.183	30.346		39.49	
ATOM	106	CA	LYS LYS					73.892	29.785		44.43	6
MOTA	107	CB					-38.351	73.876	30.882		•	6
ATOM	108	CG	LYS				-39.693	73.358	30.411		62.51	6
ATOM	109	CD	LYS				-40.795	73.532	31.449		72.22	6
ATOM	110	CE	LYS				-42.163	73.249	30.827		74.55	6
ATOM	111	NZ	LYS				-43.268	73.378	31.837		75.78	7
ATOM	112	C	LYS				-37.648	74.942	28.755		42.81	6
ATOM	113	0	LYS				-38.337	74.661	27.796		40.36	8
ATOM	114	N	THR				-37.146	76.156	28.979		39.89	7
MOTA	115	CA	THR				-37.353	77.293	28.074		39.93	6
ATOM	116	CB	THR				-36.956		28.776		40.57	6
ATOM	117	OG1	THR				-37.646	78.740	30.028		39,27	8
ATOM	118		THR				-37.273	79.805	27.893		38.11	6
ATOM	119	С	THR				-36.521	77.094	26.789		39.96	6
ATOM	120	0	THR				-37.043	76.677	25.756		36.67	8
ATOM .	121	N	VAL				-35.231	77.421	26.888		38.02	7
ATOM	122	CA	VAL	В	225		-34.263	77.295	25.801	1.00	38.12	6

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ATOM	236	CG	ASN	В	241		-37.966	59.479	7.544	1.00	70.19	6
ATOM	237	OD1	ASN	В	241		-37.561	58.526	6.845	1.00	71.37	8
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ATOM	241	N	LYS	В	242		-36.753	63.633	5.209	1.00	66.86	7
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ATOM	244	CG	LYS	В	242		-38.746	65.684	6.076	1.00	71.52	6
ATOM	245	CD	LYS	В	242		-40,007	65.528	5.215	1.00	74.32	6
ATOM	246	ÇE	ĻYS	В	242	•	-40.416	66.852	4.564	1.00	74.41	6
ATOM	247	NZ	LYS	В	242		-40.657	67.941	5.575	1.00	74.44	7
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ATOM	251	CA	ARG	В	243		-33.410	64.577	3.591	1,00	62.43	6
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ATOM	254	CD			243		-30.335	62.888	5.319		40.00	6
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ATOM	257	NH1			243		-28.510	61.357	6.798		40.00	7
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ATOM	259	C			243		-33.408	64.252	2.100		62.97	. 6
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ATOM	263	CB	LYS				-34.104	65.941	-0.866		63.68	6
ATOM	264	CG			244		-35.527		-0.337		71.29	6
ATOM	265	CD	LYS				-36.566	66.549	-1.107		73.83	6
ATOM	266	CE	LYS				-36.219	68.045	-1.138		74.71	6
ATOM	267	NZ	LYS				-36.169	68,689	0.219		73.32	7
ATOM	268	C	LYS				-31.658	65.402	-0.670		59.30	6 8
ATOM	269	0	LYS				-31.317	66.570	-0.852		56.34 57.06	7
ATOM	270 271	N CA	PHE PHE		245		-30,858 -29.462	64.359 64.525	-0.875 -1.305		59.01	6
ATOM ATOM	272	CB			245		-29.462	63.179	-1.303		59.62	6
	273	CG			245		-28.991	62.288	-0.339		66.60	6
ATOM	274	CD1	PHE		245		-20.991	61.669	-0.339		67.17	6
ATOM ATOM	275	CD2	PHE				-28.012	62.117	0.593		69.25	6
MOTA	276	CE1	PHE				-30.404	60.882	0.911		69.92	6
ATOM	277	CE2	PHE				-28,229	61.329	1.669		70.50	6
ATOM	278	CZ	PHE				-29.418	60.714	1.830		70.89	6
ATOM	279	C	PHE				-29.301	65.282	-2.592		60.68	6
ATOM	280	0	PHE				-29.859	64.911	-3.619		62.37	8
ATOM	281	N	LEU				-28.495	66.336	-2.505		60.10	7
ATOM ·	282	CA	LEU				-28.201	67.199	-3.631		59.44	6
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ATOM	284	CG	LEU				-27.248	69.474	-4.207		54.41	6
54 VE	203	<u> </u>		ر	230			V2.3/4	E V /			•

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ATOM
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                                                                1,00 63.33
                                                                               6
ATOM
         307
               CB
                   ASP
                       B 249
                                   -24.122
                                              67.031 -11.698
                                                                1.00 62.97
                                                                               6
ATOM
         308
               CG
                   ASP
                       B 249
                                   -25.437
                                              67.715
                                                     -11.489
                                                                1.00 64.63
                                                                               6
MOTA
         309
               OD1 ASP B 249
                                   -26.235
                                              67.285 -10.629
                                                                1.00 64.84
                                                                               8
ATOM
         310
               OD2 ASP
                       B 249
                                   -25.726
                                              68.718 -12.189
                                                                1.00 66.52
                                                                               8
ATOM
         311
               C
                   ASP
                       ₿
                         249
                                   -23.068
                                              68.413
                                                       -9.960
                                                                1,00 64.31
                                                                               6
ATOM
         312
              O
                   ASP B 249
                                   -22.117
                                              69.084
                                                     -10.355
                                                                1.00 64.73
                                                                               8
                   ILE B 250
ATOM
         313
              N
                                   -23.987
                                              68.892
                                                       -9.136
                                                                1.00 63.09
                                                                              . 7
                                   -23.921
ATOM
         314
              ÇA
                   ILE
                       B 250
                                              70.281
                                                       -8.660
                                                                1.00 64.39
                                                                               б
ATOM
         315
              CB
                   ILE B 250
                                   -25.124
                                             70.575
                                                       -7.798
                                                                1.00 65.79
                                                                               6
                                   -25.559
                                                       -7.858
ATOM
         316
              CG2 ILE B 250
                                             72.041
                                                                1.00 64.78
                                                                               6
         317
              CG1 ILE B 250
                                   -26.348
                                              69.752
                                                       -8.206
ATOM
                                                                1,00 65.28
                                                                               б
                                                       -7.887
ATOM
         318
              CD1 ILE B 250
                                   -27.671
                                             70.444
                                                                1.00 65.08
                                                                               6
ATOM
         319
                   ILE B 250
                                   -22.815
                                             70.488
                                                       -7.714
                                                                1.00 65,21
              C
                                                                               6
MOTA
         320
              0
                   ILE B 250
                                   -22.754
                                              69.847
                                                       -6.656
                                                                1.00 64.05
                                                                               8
MOTA
         321
              N
                   GLY B 251
                                   -22.024
                                             71.392
                                                       -8.103
                                                                               7
                                                                1.00 65,48
ATOM
         322
              CA
                   GLY B 251
                                   -20.873
                                             71.721
                                                       -7.342
                                                                1.00 67.32
                                                                               6
         323
                   GLY B 251
                                   -19.808
                                                       -7.800
ATOM
              Ç
                                             70.806
                                                                1.00 68.52
                                                                               6
ATOM
         324
                   GLY B 251
                                   -19.791
                                             70.548
                                                       -9.025
              0
                                                                1.00 65.49
                                                                               8
                                                                               7
                   GLN B 252
                                   -19.074
                                                       -6.799
ATOM
         325
              N
                                             70.440
                                                                1.00 72.26
         326
              CA
                   GLN B 252
                                   -17.949
                                             69.540
                                                       -6.883
                                                                1.00 74.10
                                                                               6
ATOM
MOTA
         327
              CB
                   GLN B 252
                                   -18.460
                                             68.098
                                                       -6.723
                                                                1.00 75.82
                                                                               6
ATOM
         328
              CG
                   GLN B 252
                                   -17.367
                                             67.088
                                                       -6.356
                                                                1.00 77.81
                                                                               6
ATOM
         329
              CD
                   GLN B 252
                                   -17.924
                                             65.759
                                                       -5.824
                                                                1,00 79.38
                                                                               6
         330
              OE1 GLN B 252
                                   -18.615
                                                       -6.549
                                                                              8
ATOM
                                             65.042
                                                               1,00 80.55
              NE2 GLN B 252
                                                                              7
MOTA
         331
                                   -17.661
                                             65.380
                                                       -4.586
                                                               1.00 78.12
ATOM
         332
              C
                   GLN B 252
                                   -17.258
                                             69.727
                                                       -8.258
                                                                1.00 77.17
                                                                               6
ATOM
         333
              0
                   GLN B 252
                                   -17.977
                                             70.009
                                                       -9.227
                                                                1.00 76.50
                                                                              8
                   ALA B 253
ATOM
         334
              N
                                   -15.718
                                             69.795
                                                       -8.279
                                                                1.00 80.78
                                                                              7
MOTA
         335
              CA
                   ALA B 253
                                   -14.615
                                             70.766
                                                       -8.544
                                                                1.00 83.70
                                                                              6
                   ALA B 253
                                                       -7.255
ATOM
         336
              CB
                                   -13.794
                                             70.914
                                                                1.00 83.23
                                                                              б
              С
                                             70.732
                                                       -9.731
ATOM
         337
                   ALA B 253
                                   -13.605
                                                                1.00 85.59
                                                                              6
ATOM
         338
              0
                   ALA B 253
                                   -13.186
                                             69.691 -10.171
                                                                1.00 85.69
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									·						
•	MOTA	339	N	PRO					.223			-10.246		35.05	7
	ATOM	340	CD	PRO					.798			-9.752		33.97	6
	ATOM	341	CA			254			. 266					35.89	6
	MOTA	342	CB	PRO					. 275			-11.596		33.94	б
	MOTA	343	CG	PRO	В	254			.222			-10.688	-	33,31	6
	ATOM	344	C	PRO	В	254		-10	.827			-11.121		37.75	6
	ATOM	345	0	PRO	В	254		-10	. 379	71	. 426	-10.009	1.00	38.78	8
	TER														
	ATOM	1	N	GLY	В	261		-8	.238	79	. 356	-2.979	1.00	40.00	7
	ATOM	2	CA	GLY	В	261		-9	.314	78	. 411	-3.005	1,00	40.00	6
	ATOM	3	С	GLY	В	261		-10	, 206	78	.717	-4.355	1,00	40.00	6
	ATOM	4	0	GLY	В	261		-11	.372	79	.141	-4.256	1.00	40.00	8
•	ATOM	5	N	GLY	В	262		-9	. 565	78	. 527	-5.597	1.00	40.00	7
	ATOM	6	CA	GLY	В	262		-10	.136	78	609	-7.087	1.00	40.00	6
	ATOM ·	7	С	GLY	В	262		-10	. 849	79	. 966	-7.577	1.00	40.00	6
	ATOM	8	0	GLY	В	262		-10	.200	81	.044	-7.543	1.00	40.00	8
•	ATOM	9	N	LYS	В	263		-12	.086	79	. 687	-8.124	1.00	61.71	. 7
	ATOM	10	CA	LYS	В	263		-13	. 323	80	. 536	-8.428	1.00	64.36	6
•	ATOM	11	С	LYS	В	263		-14	. 367	79	.750	-7.614	1.00	63.41	б
	ATOM	12	0	LYS	В	263		-14	.102	78	. 579	-7.280	1.00	61.93	8
	ATOM	13	СВ	LYS	В	263		-13	. 901	80	. 405	-9.876	1.00	63.50	6
•	MOŢA	14	CG	LYS	В	263	•	-13	.487	81	. 474	-10.881	1.00	20.00	6
	ATOM	15	CD	LYS	В	263		-14	.016	82	. 897	-10.612	1.00	20.00	6
	ATOM	16	CE	LYS	·B	263		-13	.641	83.	.874	-11.742	1.00	20.00	6
	ATOM	17	NZ	LYS	В	263		-13	. 680	85	. 287	-11,341	1.00	20.00	7
	ATOM	18	N	VAL	В	264		-15	. 489	80	. 335	-7.307	1.00	61.15	7
	ATOM	19	CA.	VAL	В	264		-16	. 616	79	. 632	-6.619	1.00	59.46	6
	ATOM	20	CB	VAL	В	264		-17	.574	80	,703	-6.099	1.00	59.03	6
	ATOM	21	CG1	VAL	В	264		-18	.479	80	.215	-4.979	1.00	53.79	6
	ATOM	22	CG2	VAL	В	264		-16	.847	81	. 938	-5.562	1.00	55.32	б
	ATOM	23	С	VAL	В	264		-17	.330	78	. 824	-7.700	1.00	60.96	. 6
	ATOM	24	0	VAL	В	264			.940	78	.873	-8.873	1.00	62.13	8
	ATOM	25	N	ASP	В	265		-18	.378	78	.098	-7,340	1.00	62.59	.7
	ATOM	26	CA	ASP	В	265		-19	.175	77.	. 339	-8.312	1.00	64.95	6
	ATOM	27	CB	ASP	В	265		-18	.796	75	.851	-8.270	1.00	64.32	6
	ATOM	28	CG	ASP	В	265		-19	. 928	75	.022	-8.584		67.70	6
	ATOM	29		ASP			•	-20	.856	75	. 062	-9.295	-	72.59	8
	ATOM	30	OD2	ASP				-20	. 370		. 959	-8.310		68.84	8
	ATOM	31	С	ASP				-20	. 658		614	-8.016		65.64	6
	ATOM	32	0	ASP	В	265		-21	.342		. 895	-7.313	1.00	68.81	8
	ATOM	33	N	LEU	В	266		-21	.066	78.	. 737	-8.588	1.00	65.12	7
	ATOM	34	CA	LEU	В	266		-22	. 385	79.	. 330	-8.499	1.00	63.40	6
	ATOM	35	СВ	LEU	В	266		-22	. 429	80	448	-9.542	1.00	67.34	6
	ATOM	36	CG	LEU	В	266		-21	. 295	81	. 459	-9.399	1.00	69.35	6
	ATOM	37	CD1	LEU	В	266		-20	. 983	82	. 127	-10.712	1.00	68.24	6
	ATOM	38	CD2	LEU	В	266		-21	. 663	82	. 461	-8.344	1.00	70.47	6
	ATOM	39	С	LEU	В	266		-23	673	78.	507	-8.602	1.00	59.67	6
	ATOM	40	0	LEU	В	266		-24	. 684	78.	. 890	-7.988	1.00	53.35	8
	ATOM	41	N	GLU	В	267		-23	677	77.	416	-9.371	1,00	58.01	7
	ATOM	42	CA	GLU	В	267		-24	. 901	76.	640	-9.449	1.00	58.34	6
	ATOM	43	СВ	GLU				-24	. 752	75.	410	-10.368	1.00	59.21	6
	ATOM	44	CG	GLU				-25	. 979	74.	464	-10.268	1.00	62.89	6
	ATOM	45	CD			267		-26	.048	73.	419	-11.328	1.00	67.66	6
	ATOM	46	OE1	GLU				-25.	.076	72.	645	-11.512	1.00	69.95	8

MOTA	. 47	OE2			267	-27.098		-12.008		69.40	8
ATOM	48	C			267	-25.200	76.184	-8.032	• •	57.67	6
MOTA	49	0			267	-26.354	76.009	-7.643	1.00	58.34	8
MOTA	50	N			268	-24.114	75.996	-7.285		53.43	7
ATOM	51	CA			268	-24.151	75.560	-5.905	1.00	49.00	6
MOTA	52	CB			268	-22.816	74.956	-5.526		45.72	6
ATOM	53	e	ALA	B	268	-24.421	76,775	-5.056	1.00	45.76	. 6
ATOM	54	0	ALA	B	268	-25.419	76.823	-4.351		41.50	8
MOTA	55	N	PHE	В	269	-23.533	77.766	-5.142	1.00	41.43	7
MOTA	56	CA	PHE	B	269	-23.688	78.989	-4.358		43.96	6
MOTA	57	CB	PHE	В	269	-22.903	80.150	-4.971	1.00	40.10	6
MOTA	58	CG	PHE	В	269	-23.057	81.458	-4.224	1.00	40,44	6
ATOM	59	CD1	PHE	В	269	-22.284	81.727	-3.105	1.00	38.98	6
ATOM	60	CD2	PHE	В	269	-24.033	82.372	-4.603	1.00	37.15	6
ATOM	61	CE1	PHE	В	269	-22.472	82.921	-2.388	1.00	32.12	6
MOTA	62	CE2	PHE	В	269	-24.228	83.567	-3.890	1.00	38.41	6
ATOM	63	CZ	PHE	В	269	-23.457	83.838	-2.780	1.00	40.55	. 6
MOTA	64	C,	PHE	В	269	-25.154	79.374	-4.320	1.00		6
ATOM	65	0	PHE	В	269	-25.645	79.905	-3.336	•	52.15	8
ATOM	66	N			270	-25,840	79.112	-5.426	1.00	53.15	7
MOTA	67	CA			270	-27.253	79.431	-5.520	1.00	52.29	6
MOTA	68	ĊB			270	-27.742	79.274	-6.948	1.00	51.85	6
MOTA	69	OG			270	-29.118	79.606	-7,048	1.00	53.42	8
MOTA	70	С	SER			-28.012	78.486	-4.630	1.00	49.38	6
MOTA	71	Ò	SER			-28.438	78.864	-3.548	1.00	48.74	
ATOM	72	N	HIS			-28.185	77.253	-5.115	1.00	50.15	7
ATOM	73	CA	HIS	В		-28.904	76.203	-4.382	1.00	51.67	6
ATOM	74	CB	HIS			-28,409	74.812	-4.782	1.00	58.52	6
ATOM	75	CG	HIS			-29.096	74.248	-5.976	1.00	68.97	. 6
ATOM	76	CD2	HIS		271	-29.987	73.233	-6.102	1.00	70.88	6
ATOM	. 77	ND1	HIS		271	-28.943	74.770	-7.270	1.00	71.98	.7 6
ATOM	78 70	CE1	HIS		271 271	-29.716 -30.354	74.080	-8.100 -7.419	1.00	73.91 73.59	7
ATOM	79 80	NE2 C	HIS HIS		271	-30.334	73.149 76.347	-2.886	1.00	48.33	6
ATOM	81	Ô	HIS			-29.641	75.874	-2.156		48.39	8
ATOM	82	Ŋ	PHE			-27.702	76.992	-2.136		41.34	7
ATOM ATOM	83	CA	PHE			-27.440	77.224	-1.033		39.44	6
ATOM	84	CB	PHE			-25.936	77.302	-0.801		36.67	6
ATOM	85	CG	PHE			-25.241	75.945	-0.861		33.39	· 6
ATOM	86	CD1	PHE			-23.856	75.857	-0.976		33.14	6
ATOM	87	CD2	PHE			-25.973	74.767	-0.732		38.28	6
ATOM	88	CE1	PHE			-23.200	74.606	-0.989		38.26	6
ATOM	89	CE2	PHE			-25.321	73.518	-0.743		43.28	6
ATOM	90	CZ	PHE			-23.937	73.441	-0.856		39.74	6
ATOM	91	C	PHE			-28.144	78.472	-0.477		40.75	6
ATOM	92	ō	PHE			-28.803	78.393	0.558		35.51	8
ATOM	93	N	THR			-28.027	79.621	-1.144		41.64	7
ATOM	94	CA	THR			-28.658	80.850	-0.652		45.97	6
ATOM	95	СВ	THR			-28.023	82.105	-1.283		51.52	٠6
ATOM	96	OG1	THR			-28.292	82.151	-2.688		45.74	8
ATOM	. 97	CG2	THR			-26.511	82.123	-1.048		49.73	6
ATOM	98	C	THR			-30.142	80.859	-0.971		46.23	6
ATOM	99	Ō	THR			-30.862	81.751	-0.535		41.21	8
ATOM	100	N	LYS			-30.583	79.876	-1.758		46.21	7
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MOTA	101	CA	LYS	В	274		-31.983	79.774	-2.147	1.00 54.53	6
ATOM	102	CB	LYS	В	274		-32.133	78.724	-3.232	1.00 54.36	6
ATOM	103	С	LYS	В	274		-32.819	79.396	-0.931	1.00 56.88	6
MOTA	104	0	LYS	В	274		-34.025	79.624	-0.906	1.00 57,98	8
ATOM	105	N	ILE	В	275		-32.151	78.820	0.076	1.00 56.48	7
ATOM	106	CA	ILE	В	275		-32.791	78.381	1.332	1.00 52.64	· 6
ATOM	107	CB	ILE	В	275		-32.638	76.863	1.519	1.00 49.15	6
ATOM	108	CG2	ILE	В	275		-33.505	76.105	0.529	1.00 47.42	· 6
MOTA	109	CG1	ILE	В	275	•	-31.188	76.441	1.343	1.00 45.31	6
MOTA	110	CD1	ILE	В	275		-30.990	74.952	1.391	1.00 37.22	6
ATOM	111	С	ILE	В	275		-32.241	79.086	2.574	1.00 51.78	6
ATOM	112	0	ILE		275		-32.858	79.049	3.622	1.00 49.80	8
ATOM	113	N	ILE		276		-31.071	79.709	2,435	1.00 51.76	7
ATOM	114	CA	ILE		276		-30.410	80,409	3.533	1.00 52.58	6
ATOM	115	CB	ILE		276		-29.145	81.110	3.042	1.00 55.04	6
ATOM	116	CG2			276		-29.486	82.172	2.017	1,00 53.28	6
ATOM	117	CG1	ILE		276		-28.396	81.786	4.203	1.00 57.31	- 6
ATOM	118	CD1	ILE		276		-27.862	80.854		1.00 60.32	6
ATOM	119	С	ILE		276		-31.282	81.461	4.237	1.00 50.70	
ATOM	120	ō ·	ILE		276		-31.015	81.817	5.385	1.00 55.55	
ATOM	121	N	THR		277		-32.322	81.953	3.568	1.00 47.33	
ATOM	122	CA	THR		277		-33.174	82.968	4.141	1.00 42.59	
ATOM	123	СВ	THR		277		-34.042	83.632	3.048	1.00 44.97	
ATOM	124	OG1			277	,	-33.202	84.145	2.001	1.00 46.38	8
ATOM	125	CG2			277		-34.856	84.781	3.653		
ATOM	126	С	THR		277		-34.069	82.447	5.267	1.00 39.84	6
ATOM	127	0	THR		277		-34.083	83.026	6.375	1.00 40.55	
ATOM	128	N	PRO		278		-34.832	81.385	5.017	1.00 38.20	7
ATOM	129	CD	PRO		278		-34.925	80.666	3.747	1.00 36.34	6
ATOM	130	CA	PRO	В	278		-35.711	80.834	6,059	1.00 36.63	6
ATOM	131	СВ	PRO	В	278		-36.475	79.715	5.357	1.00 32.95	6
ATOM	132	CG	PRO	В	278		~35.833	79.516	4.056	1.00 35.75	6
ATOM	133	С	PRO	₿	278		-34.892	80,324	7.220	1.00 38.60	6
ATOM	134	0	PRO	В	278		-35.372	80.157	8.331	1.00 37.67	8
ATOM	135	N	ALA	В	279		-33.636	80,040	6.927	1.00 37.05	7
ATOM	136	CA	ALA	В	279		-32.696	79,525	7,903	1,00 33.18	6
ATOM	137	CB	ALA	В	279		-31.391	79.195	7.205	1.00 30.56	6
ATOM	138	С	ALA	В	279		-32.447	80.536	8.991	1.00 33.47	6
ATOM	139	0	ALA	В	279		-32.623	80.238	10.158	1.00 33.74	8
MOTA	140	N	ILE	В	280		-32.010	81.728	8.577	1.00 29.96	7
ATOM	141	CA	ILE	В	280		-31.728	82.809	9.501	1.00 25.94	6
ATOM	142	CB	ILE	В	280		-31.190	84.040	8.754	1,00 26.95	6
ATOM	143	CG2	ILE	В	280		-30.881	85.149	9.715	1.00 15.40	6
ATOM	144	CG1	ILE	В	280		-29.904	83.696	8.007	1.00 26.73	6
ATOM	145	CD1	ILĘ	В	280		-29.255	84,878	7.362	1.00 34.31	6
ATOM	146	С	ILE	В	280		-32.964	83.172	10.310	1.00 31.39	6
ATOM	147	0			280		-32.882	83.378	11.522	1.00 35:69	8
ATOM	148	N			281		-34.113	83.233	9.647	1.00 30.90	7
ATOM	149	CA			281		-35.361	83.586	10.328	1.00 33.49	6
ATOM	150	СВ			281		-36.598	83.396	9.419	1.00 37.18	6
ATOM	151	OG1					-36.703	82.034	9.005	1.00 46.48	8
ATOM	152	CG2	THR				-36.525	84.289	8.198	1.00 32.85	6
ATOM	153	С			281		-35.523	82.706	11.556	1.00 29.94	б
ATOM	154	0			281		-35.855	83.186	12.634	1.00 25.55	8
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MOŢA	155	N	ARG	В	282	-35.296	81.405	11.378		32.70	7
MOTA	156	CA	ARG	В	282	-35.439	80.449	12.475	1.00	34.27	6
ATOM	157	CB	ARG	В	282	-34.999	79.060	12.020	1.00	33.78	б
ATOM	158	CG	ARG	В	282	-35.986	77.944	12.280	1.00	45.15	6
ATOM	159	CD	ARG	В	282	-36.701	77.514	11.015	1.00	58.24	6
ATOM	160	NE	ARG	В	282	-35.771	77.153	9.969	1.00.	68.41	7
ATOM	161	CZ	ARG	В	282	-34.862	76.200	10.098	1.00	72.31	6
ATOM	162	NH1	ARG	В	282	÷34.779	75.502	11.232	1.00	77.89	7
ATOM	163		ARG		282	-34.022	75.963	9.096	1.00	69.25	7
ATOM	164	С			282	-34.556	80.919	13,622	1.00	34.81	б
ATOM	165	0			282	-35.008	81,034	14.753	1.00	36.03	8
ATOM	166	N			283	-33.288	81.183	13.289	1.00	31.71	7
ATOM	167	CA			283	-32.304	81.667	14.249	1.00	30.16	6
ATOM	168	CB			283	-30.993	82.029	13.559	1.00	29.00	6
ATOM	169					-30.015	82.617	14.557	1.00	28.64	6
ATOM	170				283	-30.385	80.816	12.915		28,28	6
ATOM	171	c	VAL		283	-32.848	82.884	14.994		32.50	б
ATOM	172	0	VAL		283	-32.619	83.057	16.185		33.48	8
ATOM.	173	Ň	VAL		284	-33.573	83.728	14.265	1.00	30,96	7
ATOM	174	CA	VAL		284	-34.177	84.925	14.844		29.14	6
ATOM	175	СВ	VAL		284	-34.672	85.892	13.751	1.00	31.27	6
ATOM	176		VAL		284	-35.278	87.129	14.371	1.00	24.21	6
ATOM	177		VAL		284	-33.554	86.270	12.812	1.00	30.51	6
ATOM	178	С	VAL			-35.336·		15.747	1.00	28.89	6
ATOM	179	0	VAL			-35.491	84.994	16.860	1.00	27.29	8
ATOM	180	N			285	-36.143	83.564	15.250	1.00	28.76	7
ATOM	181	ÇA			285	-37.299	83.057	15.983	1.00	35.32	6
ATOM	182	СВ			285	-38.129	82.098	15.111	1.00	33.29	6
ATOM	183	CG	ASP	В	285	-38.881	82.795	14.013	1.00	38.15	6
ATOM	184	OD1	ASP	В	285	-39.660	83.729	14.305	1.00	34.70	8
ATOM	185	OD2	ASP	В	285	-38.741	82.406	12.821	1.00	34.43	8
ATOM	186	C	ASP	В	285	-36.863	82.339	17.257	1.00	36.70	6
ATOM	187	0	ASP	В	285	-37.606	82.304	18.237	1.00	37.96	8
ATOM	188	N	PHE	В	286	-35.663	81.755	17.235	1.00	35.96	7
ATOM	189	CA	PHE	В	286	-35.134	81.053	18,401		37.10	6
ATOM	190	CB	PHE	В	286	-33.870	80.262	18.052	1.00	37.97	б
ATOM	191	CG	PHE	В	286	-33.079	79.818	19.258	1.00	36.50	6
MOTA	192	CD1	PHE	В	286	-33.704	79.168	20,294	1.00	36.75	6
ATOM	193	CD2	PHE	В	286	-31.721	80.063	19.343	1.00	33.83	6
ATOM	194	CE1	PHE	В	286	-32.987	78.769	21.401		39.55	б
ATOM	195	CE2	PHE	В	286	-30.997	79.662	20.456		38.08	6
ATOM	196	CZ	PHE	В	286	-31.632	79.013	21.486		34.44	6
ATOM	197	C	PHE	В	286	-34.808	82.023	19,504	1.00	36.83	6
ATOM	198	0	PHE	В	286	-35.246	81.845	20.631	1.00	35.61	8
ATOM	199	N	ALA	В	287	-34.005	83.027	19.169	1.00	37.33	7
ATOM	200	CA	ALA	В	287	-33.599	84.035	20.132	1.00	36.34	6
ATOM	201	CB	ALA	В	287	-32.644	85.008	19.469	1.00	36.40	6
ATOM	202	С	ALA	В	287	-34.831	84.769	20.657		38.76	б
ATOM	203	0	ALA	В	287	-34,882	85.193	21.814		41.98	8
ATOM	204	N	LYS	В	288 .	-35.820	84.912	19.779		38.28	7
ATOM	205	ÇA	LYS	В	288	-37.066	85.584	20.112		45.26	6
ATOM	206	СВ	LYS			-37.983	85,690	18.898		48.35	6
ATOM	207	CG	LYS			-37.577	86.756	17.916		51.43	6
	208	CD	LYS			-38.806	87.359	17.226	1.00	60.23	6

MOTA	209	CE	LYS	B . 2		-39.68		86.308		16.564			62.81	
ATOM	210	NZ	LYS	B 2	888	-38.89	7	95.460		15.614		-	64.69	
ATOM	211	C	LYS	B 2	288	-37.84	6	84.901		21.191	1	.00	43.31	6
ATOM	212	0	LYS	B 2	888	-38.65	0	85.532		21.857	1	.00	45.66	8
ATOM	213	N	LYS	B 2	289.	-37.61	8	83.604		21.345	1	.00	41.70	7
ATOM	214	CA	LYS	B 2	28.9	-38.31	.3	82.849		22.351	1	.00	40,67	б
ATOM	215	CB	LYS		289	-38.55	4	81.418		21.845	1	.00	42.25	6
ATOM	216	CG	LYS			-39.43		81.368		20.589			39.53	
ATOM	217	CD	LYS		289	-40.09		80.010		20.422			43.19	
ATOM	218	CE		B 2		-41,02		79.987		19,223			45.74	
ATOM	219	NZ		B 2		-42.39		80.476		19.512			52.49	
ATOM	220	,C		B 2		-37.55		82.871		23.668			41.50	
ATOM	221	Ö	ĻYS			-38.05		82.366		24.657			39.77	
ATOM	222	N	LEU			-36.36		83.482		23.661			40.68	
ATOM	223	CA	LEU			~35.53		83.599		24.854			39.33	
ATOM	224	CB	LEU			-34.05		83.499		24.491			36.14	
ATOM	225	CG	LEU			-33.64		82,240		23.767			34.81	
ATOM	226		LEU			-32.14		82.255					29.07	
ATOM	227	CD2				-34.01		81.040		24.607			33.45	
ATOM	228	C	LEU			-35.83		84.915		25.577			40.08	
ATOM	229	Ö	LEU			-35.47		86.006		25.088			42.00	
ATOM	230	. N		B 2		-36.46		84.840		26.765			40.27	
ATOM	231	CD		B 2		-36.81		83.613		27.494			39.65	
ATOM	232			B 2		-36.78		86.069		27.501			38.28	
ATOM	233	CB	PRO		91	-37.37		85.574		28.811			35.88	
ATOM	234	CG	PRO		291	-37.54		84.110		28.695			34.19	
ATOM	235	C	PRO		91	-35.57		87.002		27.714			40.05	
ATOM	236	0	PRO		291	-35.62		88.197		27.403			41.33	
ATOM	237	N	MET		292	-34.47		86.476		28.258	1	.00	40.59	7
MOTA	238	CA	MET	B 2	292	-33.29	6	87.286		28.545	1	.00	42.86	6
ATOM	239	CB	MET	B 2	92	-32.14	9	86.376		28.975	1	.00	43.28	б
ATOM	240	CG	MET	B 2	292	-32.55	3	85.302		29.970	1	.00	50,35	6
ATOM	241	SD	MET	B 2	292	-31.07	0	84.609		30.755	1	.00	51.17	16
ATOM	242	CE	MET	B 2	292	-31.79	7	83.212		31.701	1	.00	54.63	6
ATOM	243	С	MET	B 2	92	-32.89	5	88.077		27.315	1	.00	41.05	6
MOTA	244	0	MET	B 2	92	-32.22	8	89.098		27.420	1	.00	39.66	8
MOTA	245	N	PHE	B 2	293	-33.32	2	87.604		26.143	1	.00	39.30	7
MOTA	246	CA	PHE	B 2	293	-33.01	.7	88.271		24.878	1	.00	40.92	
MOTA	247	CB	PHE	B 2	93	-33.29	6	87.329		23.707	1	.00	40,98	
ATOM	248	CG	PHE	B 2	93	-32.93	7	87.909		22,365	1	.00	42,78	
ATOM	249		PHE			-31.65	3	88.354		22.120	1	.00	44.40	
ATOM	250	CD2	PHE	B 2	93	-33.87	2	87,972		21.350	1	.00	43.66	
ATOM	251	CEl	PHE	B 2	93	-31.30	6	88,869		20.872			39.83	
ATOM	252	CE2	PHE	B 2	93	-33.52	5	88.486		20.100	1	. QO	46.21	
ATOM	253	CZ	PHE	B 2	93	-32.23	9	88.926		19.859	1	.00	45,18	
MOTA	254	Ç	PHE	B 2	93	-33.87	3	89.518		24.744	1	.00	45.54	
MOTA	255	0	PHE	B 2	93	-33.36	9	90.626	;	24.579	1	.00	42.01	
ATOM	256	N	CYS			-35.18		89.305		24.808			47.05	
ATOM	257	CA	CYS			-36.14		90.382		24.689			50.15	
MOTA	258	CB	CYS			-37.55		89.793		24.756			45.90	
MOTA	259	SG	CYS			-37.89		88.607		23.449			51.50	
ATOM	260	C,	CYS			-35.97		91.474		25.751			51.38	
MOTA	261	0	CYS			-36.58		92.536		25.656				
MOTA	262	N	GLU	В 2	95	-35.13	7	91.200	:	26,753	1.	.00	49.72	7
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ATOM	263	CA	GLU	В	295	-34.839	92.159	27.816		52.53	6
ATOM	264	CB	GLU	B	295	-34.553		29.131	-	57.40	6
ATOM	265	CG	GLU	В	295	-35.811		29.874		69.63	6
ATOM	266	CD	GLU	B	295	-36.610		30.375		78.49	6
ATOM	267	OE 1	GLU	В	295	-36.153	92.869	31.297		82.82	8
ATOM	268	OE2	GLU	В	295	-37.730	92.385	29.860	1.00	85.30	8
ATOM	269	С	GLU	В	295	-33.629	93.009	27.415	1.00	48.54	6
ATOM	270	0	GLU	В	295	-32.981	93.627	28.260	1.00	49.82	8
ATOM	271	N	LEU	В	296	-33.374	93.030	26.109	1.00	43.79	7
ATOM	272	CA	LEU	В	296	-32,268	93.761	25.540	1.00	45.42	б
ATOM	273	CB	LEU	В	296	-31.319	92.769	24.838	1.00	41.04	6
ATOM	274	CG	LEU	В	296	-30.735	91.631	25.662	1.00	42.74	6
ATOM	275	CD1	LEU	В	296	-30.354	90.478	24,764	1.00	40.99	6
ATOM	276		LEU	В	296	-29.559	92.119	26.468	1.00	39.44	6
ATOM	277	C	LEU	B	296	-32.760	94.779	24.522	1,00	45.56	6
ATOM	278	0			296	-33.845	94.600	23.924	1.00	43.07	8
ATOM	279	N			297	-32.004		24.338	1.00	46.99	• 7
ATOM	280	CD			297	-30.740	96.123	25.046	1,00	47.12	6
ATOM	281	CA	PRO		297	-32.388	96.912	23.363	1.00	49.61	6
ATOM	282	СВ	PRO		297	-31.294	97.973	23.494	1,00	49.91	6
ATOM	283	CG	PRO	В	297	-30.302	97.477	24.545	1.00	51.28	6
ATOM	284	.C			297	-32.263	96.273	21.913	1.00	49.59	6
ATOM	285	Ο.			297	-31.441	95.340	21.685	1.00	51.66	8
ATOM	286	N	CYS	В	298	-33.035	96.667	20.854	1.00	51.02	. 7
ATOM	287	CA	CYS	В	298	-32.761	96.150	19.456	1.00	52.86	б
ATOM	288	CB.	CYS			-33.140	97.165	18.356	1,00	54.57	6
ATOM	289	SG	CYS	В	298	-34.884	97.085	17.836	1.00	67.87	16
ATOM	290	С	CYS	В	298	-31.385	96.330	19.127	1.00	48.51	6
ATOM	291	0	CYS	В	298	-30.579	95.506	18.744	1,00	49.58	8
ATOM	292	N	GLU	В	299	-31.107	97.447	19.230	1.00	44.17	7
ATOM	293	CA	GLU	В	299	-29.989	97.645	18,718	1.00	47.57	6
MOTA	294	CB	GLU	В	299	-29.402	98.973	19,208		49.92	б
ATOM	295	CG	GLU	В	299	-29.944	100.187	18,433		59.30	6
ATOM	296	ÇD	GLU	В	299	-31.090	100.887	19.164	1.00		б
ATOM	297	OE 1	GLU			-31.673	101,904	18.629	1.00		8
ATOM	298	OE2	GLU	В	299		100.458	20.319		67.10	8
ATOM	299	C	GLU	В	299	-28.993	96.533	18.987		46.57	б
ATOM	300	0	GLU	В	299	-28.200	96.17 9	18.111	-	4465	8
ATOM	301	N	ASP	В	300	-29.045	95.989	20.203		45,17	7
ATOM	302	CA	ASP	В	300	- 28.152	94.908	20.584		43.32	6
ATOM	303	CB	ASP	В	300	-27.985		22.105		37.38	6
ATOM	304	CG	ASP	В	300	-27.239	96.016	22.650		36,23	б
ATOM	305	OD1	ASP	В	300	-26.208	96.421	22.052		35.87	8
ATOM	306	OD2	ASP	В	300	-27.661	96.543	23.716	1.00	40.14	8
ATOM	307	С	ASP	В	300	-28.721	93.591	20.071	1.00	42.81	6
ATOM	308	Ο.	ASP	В	300	-28.001	92.775	19.489	1.00	46.02	8
ATOM	309	N	GLN	В	301	-30.019	93.399	20.306		38.60	7
ATOM	310	CA	GLN	В	301	-30.712		19.858		40.00	6
ATOM	311	CB	GLŅ	В	301	-32.234	92.418	19.836		38.59	6
ATOM	312	CG	GLN	В	301	-32.908	92.380	21.187		40.26	6
ATOM	313	CD	GLN	В	301	-34.401		21.083		44.15	6
ATOM	314	OE1	GLN	В	301	-34.859	93.637	20.589		45.73	8
ATOM	315	NE2	GLN	В	301	-35.165	91.602	21.544		46.13	7
ATOM	316	С	GLN	В	301	-30.237	91.830	18.455	1.00	41.64	6

ATOM	317	Ó			301		.162		. 662		8.100			45.0	
MOTA	318	Ŋ			302		.916		.864		7.674			41.0	
MOTA	319	CA	ILE	В	302	-29	.424	92	. 692	1	6.311			40.2	
MOTA	320	ÇВ	ILE	В	302	-29	.584	93	.978	1	5.498	l.	.00	39.5	
MOTA	321	CG2	ILE	В	302	-29	.034	93	.792	1	4.100	1.	.00	31,9	3 6
.ATOM	322	CG1	ILE	В	302	-31	.059	94	.385	1	5,416	1.	.00	40.7	7 6
ATOM	323	CD1	ILE	В	302	-31	. 939	93	.317	1	4.775	1.	.00	45.43	3 6
ATOM	324	С	ILE	В	302	-27	.966	92	.260	1	6.342	1.	.00	38.5	8 6
MOTA	325	0	ILE	В	302	-27	.613	91	.197	1	5.830	1.	.00	40.8	18
ATOM	326	N	ILE	В	303	-27	.128	93	.111	1	6.933	1.	.00	37.5	0. 7
ATOM	327	CA	ILE	В	303	-25	. 692	92	.846	1	7.062	1.	00	39.3	3 6
ATOM	328	CB	ILE	В	303	-25	.066	93	.648	1	8.203	1.	00	39.0	6 6
ATOM	329	CG2	ILE	B	303	-23	.566	93	.405	1	8.257	1.	00	36.19	9 6
MOTA	330	CG1	ILE	В	303	-25	.309	95	.143	1	8,020	1.	00	40.1	5 6
MOTA	331	CD1	ILE	В	303	-24	.816	95	.966	1	9.173	1.	00	36.93	3 6
ATOM	332	С	ILE	В	303	-25	.470	91	.365	1	7.323	1.	00	36.4	9 6
ATOM	333	0	ILE	В	303	-24	.619	90	.725	1	6.712	1.	00	36.5	8 8
ATOM	334	N	LEU	В	304	-26	.244	90	.843	1	8.266	1.	00	32.9	1 7
ATOM	335	CA	LEU	В	304	-26	.194	89	.433	1	8.633	1.	00	27.5	5 6
ATOM	336	CB	LEU	В	304	-27	.172	89	.182	1	9,793	1.	00	22.3	5 6
ATOM	337	CG	LEU	В	304	-26	. 623	89	.449	2	1.187	1.	00	26.8	8 6
ATOM	338	CD1	LEU	В	304	-25	.540	90	.495	2	1.136	· 1.	00	24.8	2 6
MOTA	339	CD2	LEU	В	304	-27	.747	89	.840	2	2.121	1.	00	23.6	9 6
ATOM	340	С	LEU	В	304	-26	.505	88	.547	1	7.425	1.	00	28.0	5 6
ATOM	341	0	LEU	В	304	-25	.668	87	.751	1	6.983	1.	00	24.6	8 8
ATOM	342	N	LEU	В	305	-27	.716	88	.700	1	6.897	1.	00	26.3	4 7
ATOM	343	CA	LEU	В	305	-28	.145	87	,939	1	5.741	1.	00	30.9	1 6
ATOM	344	CB	LEU	В	305	-29	.460	88	.514	1	5.199	1.	00	32.5	
MOTA	345	CG	LEU	В	305	-30	.699	88	.305	1	6.050	1.	00	33,3	
MOTA	346	CD1	LEU	В	305	-31	. 938		.839	1	5.342	1.	00	33.8	
MOTA	347	CD2	LEU			-30	,863	86	,812		6.298			31.7	
ATOM	348	С	LEU				.072		.922		4.666			29.7	
MOTA	349	0	LEU		305		.687		.860		4.202			29.3	
MOTA	350	N	LYS		306		.597		.107		4.291			29.7	
ATOM	351	CA	LYS				.576		.254		3.264			34.2	
ATOM	352	CB	LYS				.224		.732		3.077			35.9	
MOTA	353		LYS				.350		.581		2.494			43.3	
ATOM	354	CD	LYS				.852		.987		2.182			51.5	
MOTA	355	CE	LYS				.706		. 932		1.190			53.2	
MOTA	356	NZ	LYS				.883		.161		1.251			59.6	
MOTA	357	С	LYS				.308		.484		3.556			35.25	
MOTA	358	0	LYS				.681		.917		2.653			33.9	
MOTA	359	N	GLY				.918		.478		4.829			35.79	
ATOM	360	CA	ĢLY				.702		.793		5.227			34.59	
MOTA	361	С	GLY				.811		.291		5.383			33.80	
MOTA	362	0	GLY	В	307		. 944	85	.564	1	4.895			31.59	
ATOM	363	N	CYS				.861		.843		6.071			31.1	
ATOM	364	CA	CYS				.069		.434		6.320			29.04	
ATOM	365	CB	CYS				761		.240		7.663			27.59	
ATOM	366	SG	CYS				.496		.629		7.608			30.50	
MOTA	367	С	CYS				.911		.712		5.266			30.59	
ATOM	368	0	CYS				. 088		.499		5.365			33.7	
ATOM	369	N	CYS				. 432		. 429		4.266			28.46	
ATOM	370	CA	CYS	В	309	-26.	.270	83	.787	1	3.265	1.	00	30.10	6

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         371
               CB
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MOTA
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MOTA
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ATOM	481	N	PRO	В	323	-22.242	60.005	9.549	1.00	46.53	7
ATOM	482	CD	PRO	В	323	-22.594	59.676	10.934	1.00	47.16	6
ATOM	483	ÇA	PRO	B	323	-20.910	59.487	9.162	1.00	46.63	ઈ
ATOM	484	CB	PRO	В	323	-20.367	58.847	10.433	1.00	43.95	6
ATOM	485	CG	PRO	B	323	-21.398	58.958	11.454	1.00	43.93	6
ATOM	486	С	PRO	В	323	-20.933	58.489	8,017	1.00	48.34	6
MOTA	487	0	PRO	В	323	-20.040	58.457	7.171	1.00	50.84	8
MOTA	488	N	GLU	В	324	-21.951	57.631	8.022	1.00	52.39	7
ATOM	489	CA	GLU	В	324	-22.126	56.615	7.008.	1,00	55.85	б
ATOM	490	CB	GLU	В	324	-23.491	55.960	7.216	1.00	55.54	6
ATOM	491	CG	GĻU	В	324	-23.678	55.332	8,581	1.00	40.00	6
ATOM	492	CD	GĻU	В	324	-22.642	54.294	8.888	1.00	40,00	6
ATOM	493	OE1	GLU	В	324	-21.796	53.979	8.000	1.00	40.00	8
ATOM	494	OE2	GLU	В	324	-22.645	53.751	10.029	1.00	40.00	8
ATOM	495	С	GLU	·B	324	-22.087	57.292	5.655	1.00	54.94	. 6
ATOM	496	0	GLU	В	324	-21.144	57.149	4.896	1.00	59.81	8
ATOM	497	N	SER	В	325	-23.165	58.022	5.389	1,00	52.95	7
ATOM	498	CA	SER	В	325	-23.358	58.762	4.163		50.10	6
ATOM	499	CB	SER	В	325	-24.768	59.357	4.163	1.00	48,23	6
ATOM	500	OG	SER	В	325	-25.051	59.976	5.403	1.00	48.71	8
MOTA	501	c	SER	В	325	-22.324	59.861	3.964	1.00	50.61	6
MOTA	502	0	SER	·B	325	-21.956	60.176	2.848	1,00	52.19	8
ATOM	503	N	GLU	В	326	-21.851	60.422	5.070	1.00	45.64	7
ATOM	504	CA	GLU	В	326	-20.854	61.476	5.050	1.00	43.35	6
ATOM	505	CB	GLU	В	326	-19.602	61.022	4.277	1.00	42.74	6
ATOM	506	CG	GLU	В	326	-18.880	59.814	4.876	1,00	50.32	6
ATOM	507	CD	GLU	В	326	-17.576	59.524	4.207	1.00	56.34	6
ATOM	508	OE1	GLU			-16.898	58.545	4.608	100	59.31	8
ATOM	509	OE2	GLU			-17.177	60.255	3.266	1.00	55.74	8
MOTA	510	С	GLU		326	-21.401	62.731	4.418	1.00		6
MOTA	511	0	GLU		326	-20.793	63.285	3.514	1.00		8
ATOM	512	Ŋ			327	-22.528		4.934		35.90	7
ATOM	513	CA			327	-23.163	64.418	4.401		37.29	6
ATOM	514	CB			327	-24.146	64.052	3.285		37.63	6
MOTA	515		THR			-25.172		3.803		38.12	8
ATOM	516		THR			-23.445	63.342	2.130		39.90	6
ATOM	517	С			327	-23.961	65.125	5.473		39.49	6
ATOM	518	0	THR			-24.645	64.473	6.264		40.50	8
MOTA	519	N	LEU			-23.909	66.454	5.473		36.64	7
ATOM	520	CA	LEU			-24.675	67.239	6.447		37.73	6
MOTA	521	CB	LEU			-24.061	68.637	6.620		37.78	6
MOTA	522	ÇG	LEU			-22.586	68.750	6.931		36.26	6
ATOM	523		LEU			-22.260	70.145	7.411		36.56	б
MOTA	524		LEU			-22.231	67.751	8.000		39.85	6
MOTA	525	С	LEU			-26.090	67.344	5.897		37.27	6
ATOM	526	0	LEU			-26.358	66.855	4.805		34.96	8
ATOM	527	N	THR			-26.989	67.975	6.647		39.73	7
ATOM	528	CA	THR			-28.369	68.132	6.215		40.81	6
ATOM	529	CB	THR			-29.279	67.135	6,918		42.67	6
ATOM	530	OG1	THR			-28.799	65.809	6.686		42.52	8
ATOM	531		THR			-30.702	67.255	6.375		43.52	6
ATOM	532	С	THR	В	329	-28.853	69.529	6.498	1.00	44.31	6

ATOM	533	0			329	-29.43	32	69.801	7,535	1.00	43,72	8 -
ATOM	534	N	LEU	В	330	-28.58		70.413	5.546	1.00	44.62	7
ATOM	535	ÇA	LEU	В		-28.98		71.812	5.658	1.00	45.09	б
ATOM	536	CB	LEU	В	330	-28.39		72.608	4.510	1.00	44.66	6
ATOM	537	CG	LEU	₿	330	-26.84		72.735	4,539	1.00	51.06	6
ATOM	538	CD1	LEU	В	330	-26.22	26	71.367	4.640	1.00	48.58	б
AŢOM	539	CD2	LEU	B	330	-26.36	64	73.450	3.299	1.00	45.18	- 6
ATOM	540	С	LEU	В	330	-30.50	80	71.965	5.652	1,00	48.06	Ġ
ATOM	541	0	LEU	B	330	-31.21	11 .	71.244	4,959	1.00	49.33	8
ATOM	542	N	ASN	В	331	-30.98	88	72.911	6.458	1.00	52.20	7
atom	543	CA	ASN	B	331	-32.40	57	73.214	6.588	1.00	54.41	6
ATOM	544	CB	ASN	B	331	-32.87	70	74.013	5.370	1.00	54.94	б
MOTA	545	CG	ASN	В	331	-33.68	9.7	75.220	5.749	1,00	60.35	6
ATOM	546	OD1	ASN	В	331	-33.18	32	76.130	6.430	1.00	61.84	8
ATOM	547	NDZ	ASN	В	331	-34.93	35	75.242	5.324	1.00	65.92	7
MOTA	548	C	NEA	B	331	-33.25	51	71.959	6,731	1.00	58.00	6
ATOM	549	0	ASN	В	331	-34.46	б4	72.000	6.579	1.00	60.17	8
ATOM	550	N	GLY	В	332	-32.59	96	70.846	7.054	1.00	58,45	7
ATOM	551	CA	GLY	В	332	-33.29	95	69.587	7,235	1.00	58.55	6
MOTA	552	С	GLY	В	332	-33,90	09	69.004	5.984	1.00	59.79	6 ·
ATOM	553	0	GLY	В	332	-34.60	9	68.000	6.065	1.00	61.32	8
MOTA	554	N	GLU	В	333	-33.63	39	69.628	4.838	1.00	60.28	7
MOTA	555	CA	GLU	В	333	-34,19	96	69.182	3,571	1,00	59.13	6
ATOM	556	СВ	GLU	В	333	-34.96	66	70.323	2.885	1.00	62.40	6
ATOM	557	CG	GLU	В	333	-36.09	99	70.963	3.690	1.00	75.69	6
ATOM	558	CD	GLU	В	333	-36.72	20	72.135	2.998	1.00	80.41	6
ATOM	559	OE1	GLU	В	333	-35.98	3 4	73.081	2.618	1.00	79.98	. 8
ATOM	560	OE2	GLU	В	333	-37.96	66	72.158	2.830	1.00	83.81	8
ATOM	561	C	GLU	В	333	-33.11	10	68.722	2.624	1.00	57.18	. 6
ATOM	562	0	GLU	В	333	-33.23	36	67.689	1.974	1.00	57.50	8
ATOM	563	N	MET	В	334	-32.05	54	69.528	2.539	1,00	55.20	7
ATOM	564	CA	MET	В	334	-30.92	26	69.259	1.653	1,00	50.85	б
MOTA	565	CB	MET	В	334	-30.51	14	70.563	0,984	1.00	48,70	6
ATOM	566	CG	MET	В	334	-29.24	44	70.460	0.194	1.00	45.39	6
MOTA	567	SD	MET		334	-28.74		72.008	-0.624	1.00	44.56	16
ATOM	568	CE	MET	В	334	-30.30		72.445			45.25	6
MOTA	569	C			334	-29,71		68.634	2.319		51.59	6
ATOM	570	O	MET			-29.18		69.161	3,291		52.52	. 8
MOTA	571	N	ALA			-29.27		67.515	1.758		51.00	7
ATOM	572	ÇA	ALA			-28.10		66.802	2.267	.*	48.98	6
MOTA	573	CB	ALA	В	335	-28.37	77	65.304	2.274	1,00	47.86	6
ATOM	574	С	ALA	В	335	-26.93		67.108	1.371	1.00	51.01	6
MOTA	575	0	ALA	В	335	-26.93		66.760	0.190	1.00	51.61	8
ATOM	576 °	N	VAL			-25.92	21	67.770	1.930	1.00	46.62	7
ATOM	577	CA	VAL	В	336	-24.73	30	68.142	1.152	1.00	42.35	6
ATOM	578	CB	VAL	В	336	-24.46	56	69.635	1.258	1.00	42.41	6
ATOM	579	CG1	VAL	В	336	-25.69	9 5	70.418	0.860	1.00	42.00	6
ATOM	580	CG2	VAL	₿	336	-24.01	18	70.004	2.642	1.00	40.32	6
ATOM	581	С	VAL	В	336	-23.49	93	67.390	1.611	1.00	45.33	6
MOTA	582	0	VAL	В	336	-23.46	54	66.775	2.681	1.00	47.42	8
ATOM	583	N	THR	В	337	-22.46	51	67.478	0.781	1.00	41.60	7
ATOM	584	CA	THR	В	337	-21.17		66.818	1.041	1.00	39.69	6
ATOM	585	CB	THR	В	337	-20.72	20	66.011	-0.173	1.00	41.35	6
MOTA	586	OG1	THR	В	337	-20.27	73	66.887	-1.213	1.00	49.35	8

MOTA	587	CG2	THR	В	337	-21.869	65.175	-0.702		40.38	6
ATOM	588	С	THR	В	337	-20.087	67.846	1.318		37.88	6
ATOM	589	0	THR	В	337	-20.141	68.975	0.832		34.06	8
ATOM	590	N	ARG	В	338	-19.097	67.417	2.095		37.61	7
MOTA	591	CA	ARG	В	338	-17.942	68.241	2.442	1.00	38.68	6
ATOM	592	CB	ARG	B	338	-16.770	67.333	2.823	1.00	35.95	6
ATOM	593	ÇG	ARG	В	338	-15.455	68.042	3.064	1.00	38.83	б
ATOM	594	ÇD	ARG	В	338	-14.348	67.029	3.319	1.00	35.88	6
ATOM	595	NE	ARG	В	338	-14.520	66.239	4.530	1.00	37.42	7
ATOM	596	CZ	ARG	В	338	-14.274	66.669	5.766	1.00	30.20	6
ATOM	597	NH1	ARG	В	338	-13.794	67.892	5.973	1.00	27.98	7
MOTA	598	NH2	ARG	В	338	-14.481	65.847	6.788	1.00	27.40	7
ATOM	599	С	ARG	В	338	-17.581	69.075	1.229	1.00	38.09	6
MOTA	600	O	ARG	В	338	-17.537	70.299	1.284	1.00	34.12	8.
MOTA	601	N	GLY	В	339	-17.345	68.383	0.117	1.00	41,25	7
ATOM	602	CA			339	-16.981	69.054	-1.119	1.00	41.35	6
ATOM	603	C	GLY	В	339	-18.004	70.109	-1.460	1.00	41.23	- 6
MOTA	604	0	GLY	В	339	-17.736	71.291	-1.330	1.00	38.30	8
ATOM	605	N	GLN	В	340	-19.174	69,665	-1.909	1.00	38.58	7 .
ATOM	606	CA	GLN	В	340	-20,258	70.564	-2.276	1.00	40.79	6
ATOM	607	CB	GLN	В	340	-21.596	69.843	-2.079	1.00	40.82	6
ATOM	608	CG	GLN		340	-21.830	68.657	-3,029	1.00	41.10	6
ATOM	609	CD	GLN	В	340	-23.154	67.937	-2,783	1.00	48.84	6
ATOM	610	OE1	GLN	В	340	-23.353	67.313	-1.715	1.00	50.53	8
ATOM	611	NE2	GLN	В	340	-24.050	68.015	-3.753	1.00	54.25	7
ATOM	612	С	GLN	В	340	-20.239	71.872	-1.475	1.00	41.50	6
ATOM	613	0	GLN	В	340	-20.114	72.958	-2.032		42.72	8
ATOM	614	N	LEU	В	341	-20.352	71.736	-0.156		42.00	7
ATOM	615	CA	LEU	В	341	-20.375	72.879	0.746		38.10	6
MOTA	616	CB	LEU	В	341	-20.401	72.419	2.201		36.66	6
ATOM	617	CG	LEU	В	341	-20.678	73.514	3.194		39.94	6
MOTA	618	CD1	LEU		341	-22.088	74.038	2.936	1.00	34.98	6
ATOM	619	CD2	LEU	В	341	-20.570	72.990	4.609			6
MOTA	620	C	LEU		341	-19.170	73.763	0.543		36.37	6
ATOM	621	0	LEU		341	-19.293	74.974	0.497		37.89	8
MOTA	622	N		-	342	-18.003	73.136	0.433	1.00	33.29	7
MOTA	623	CA			342	-16.737	73.843	0.239		35.17	6
ATOM	624	CB			342	-15.603	72.821	0.176		34.97	6
ATOM	625	CG			342	-14.210	73,401	0.306		40,00	6
ATOM	626	CD			342	-13.155	72.288	0.316		34.48	6
ATOM	627	CE			342	-11.775	72.809	0.755		37.54	6
MOTA	628	NZ			342	-10.790	71.680	0.981		42.32	7
MOTA	629	С			342	-16.744	74.685	-1.038		38.29	б
MOTA	630	0			342	-16.725	75.911	-0.993		36.23	8
ATOM	631	N			343	-16.760	73.990			39.25	7
ATOM	632	CA			343	-16.762	74.609	-3.481		40.19	6
ATOM	633	CB			343	-16.977	73.539	-4.551		37.96	6
MOTA	634	CG			343	-16.178	72.272	-4.277		39.22	6
MOTA	635	OD1			343	-14.938	72.313	-4.106		42.37	8
MOTA	636	ND2				-16.877	71.144	-4.259		42,19	7
ATOM	637	С			343	-17.894	75.624	-3.547		40.12	6
ATOM	638	0			343	-17.835	76.600	-4.284		36.01	8
ATOM	639	N			344	-18.934	75.361	-2.756		40.95	7
ATOM	640	CA	GLY	В	344	-20.101	76.222	-2.709	1.00	39.25	6

ATOM	641	С	GT.Y	R	344	-19.867	77.636	-2.258	1.00 3	8 26	6
MOTA	642	Ö			344	-20,715	78.501	-2:484	1.00 3		8
ATOM	643	N			345	-18.724	77.871	-1.619	1.00 3		7
ATOM	644	CA			345	-18.426	79.209	-1.159	1.00 3		6
ATOM	645	С			345	-17.848	79.298	0.230	1.00 3		6
ATOM	646	0			345	-17.216	80.303	0.573	1.00 3		8
ATOM	647	N	LEU	В	346	-18.071	78.266	1.041	1.00 3	9.52	. 7
ATOM	648	CA	LEU	В	346	-17.563	78,279	2.403	1.00 3	6.05	6
ATOM	649	СВ	LEU	В	346	-18.311	77.256	3.269	1.00 3	5.72	6
ATOM	650	CG	LEU	В	346	-19.800	77.473	3.378	1.00 3	4.89	б
ATOM	651	CD1	LEU	В	346	-20.322	76.678	4.554	1.00 4	4.09	6
ATOM	652	CD2	LEU	В	346	-20.086	78.937	3.612	1.00 3	4.84	6
ATOM	653	Ç	LEU	В	346	-16.079	78.018	2.445	1.00 3	3.52	6
ATOM	654	0	LEU	В	346	-15.392	78.387	3.394	1.00 3	5.58	8
ATOM	655	N .	GLY	В	347	-15.586	77.388	1.385	1.00 3		7
ATOM	656	CA			347	-14,174	77,078	1.305	1.00 3		6
ATOM	657	С			347	-13.768	76.214	2.477	1.00 3		. 6
MOTA	658	0			347	-14.433	75.243	2.808	1.00 3		8
MOTA	659	N			348	-12.647	76.585	3.087	1.00 3		7
ATOM	660	CA			348	-12.097	75.867	4.227	1.00 3		6
ATOM	661	CB			348	-10.889	76.609	4.817	1.00 3		6
MOTA	662	CG1			348	-11.292	77.974	5.360			6
ATOM	663	CG2	VAL			-10.250	75.786	5.905	1.00 2		6
ATOM	664	С	VAL		348	-13.136	75.651	5.360	1.00 3		6
ATOM	665	0	VAL		348	-13.002	74.707	6.153	1.00 2		8
ATOM	666	N	VAL		349	-14.157	76.518	5.449	1.00 3		7
ATOM	667		VAL		349 349	-15.147 -16.226	76.339 77,393	6.483 6.476	1.00 3 1.00 3		6 6
ATOM	668 669	CB CG1	VAL VAL		349	-10.220	76.979	7.399	1.00 3		: 6
ATOM ATOM	670				349	-17.342	78.703	6.959	1.00 3		. 6
ATOM	671	C	VAL		349	-15.792	74.987	6,380	1.00 3		6
ATOM	672	Ö			349	-16.055	74.359	7.394	1.00 3		8
ATOM	673	N			350	-16.054	74.507	5.176	1.00 3		7
ATOM	674	CA	SER			-16.695	73.215	5.100	1,00 3		6
ATOM	675	СВ			350	-16.772	72.697	3.684	1.00 2		6
ATOM	676	OG			350	-17,538	71.502	3.644	1.00 2	3.16	8
ATOM	677	С	SER	В	350	-15.910	72.254	5.942	1.00 3	1.59	6
ATOM	678	0	SER	В	350	-16.417	71.807	6.950	1.00 3	7.62	8
ATOM	679	N	ASP	В	351	-14.675	71.942	5.565	1,00 2	8.60	7
MOTA	680	CA	ASP	В	351	-13.905	71.010	6.378	1.00 2		6
ATOM	681	CB	ASP	В	351	-12.419	71,139	6.050	1.00 2		6
ATOM	682	CG	ASP			-12.151	71.094	4.585	1.00 3		6
MOTA	683		ASP			-12.013	72.174	3.954	1.00 3		8
MOTA	684		ASP			-12.064	69.980	4.017	1.00 3		8
ATOM	685	С	ASP			-14.176	71,343	7,861	1.00 3		6
ATOM	686	0	ASP			-14.458	70.474	8.681	1.00 2		8
ATOM	687	N	ALA			-14.111	72.629	8.177	1.00 2		
MOTA	688	CA	ALA			-14.346	73.092	9.533	1.00 2		6
MOTA	689	CB	ALA			-14.252	74.606	9.572	1,00 2		6
ATOM	690	C	ALA			-15.690	72.630	10.086	1.00 2		6
MOTA	691	0	ALA			-15.757	72.068	11.164	1.00 3		8
ATOM	692	N C n	ILE			-16.754	72.884	9.330	1.00 2		7
ATOM	693	CA	ILE			-18.096 -19.144	72.506	9.729	1.00 2		6 6
ATOM	694	CB	ILE	Þ	223	-19.144	73.129	8.800	1.00 2	0.04	О

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	ATOM	695		ILE I		-20.529	72.673	9.195	1.00 23.68	6
	atom	696		ILE I		-19.108	74.657	8.869	1.00 27.33	6
	ATOM	697	CD1		3 353	-20.141	75.313	7.964	1.00 26.23	б
	MOTA	698	C		353	~18.309	71.002	9.775	1.00 30.88	б
	ATOM	699	0	ILE I	3 3 3 3	-19.021	70.499	10.639	1.00 31.22	8
	ATOM	700	N	PHE I	3 3 5 4	-17,728	70.279	8.822	1.00 29.86	7
	ATOM	701	CA	PHE I	3 3 5 4	-17.881	68.831	8.797	1.00 31.08	6
	MOTA	702	CB	PHE I	3 354	-17.461	68.249	7.439	1.00 28.80	· 6
	ATOM	703	CĢ	PHE I	3 3 5 4	-18.568	68.233	6,405	1.00 28.80	6
•	ATOM	704	CD1	PHE E	354	-19.031	69.403	5.833	1.00 30.96	6
	ATOM	705	CD2	PHE F	3 3 5 4	-19.150	67.027	6.034	1.00 29.45	6
	ATOM	706	CE1	PHE I	3 3 5 4	-20.066	69.362	4.902	1.00 27.12	6
	ATOM	707	CE2	PHE E	3 3 5 4	-20.186	66.978	5.104		6
	ATOM	708	CZ	PHE E	354	-20.644	68.146	4.535		6
	ATOM	709	C		3 3 5 4	-17.041	68.223	9.913	1.00 29.17	6
	ATOM	710	0	PHE E		-17.544	67.429	10.700	1.00 32.62	8
	ATOM	711	N	ASP E		-15.761	68.593	9.972	1.00 23.86	7
	ATOM	712	CA	ASP E	3 3 5 5	-14.864	68.090		1.00 25.34	6
	ATOM	713	CB	ASP E		-13.582	68.929	11.045	1.00 21,41	6
	ATOM	714	CG	ASP E		-12.548	68.456	10.086	1.00 32.08	
	ATOM	715	OD1	ASP E	355	-12.899	68.069	8.944	1.00 33.58	8
	ATOM	716		ASP E		-11.345	68.477	10.450	1.00 33.20	8
	ATOM	717	C	ASP E		-15.570	68.153	12.357	1.00 27.86	6
	ATOM	718	0	ASP E		-15.430	67.257	13.182	1.00 32.42	8
	ATOM	719	N	LEU E		-16.339	69.223	12.561		7
	ATOM	720	CA	LEU E		-17.085	69.400	13.803	1.00 28.66	6
	ATOM	721	CB	LEU E		-17.832	70.742	13.800	1.00 25.37	6
	ATOM	722	CG	LEU E		-18.655	71.091	15.023	1.00 27.61	6
	ATOM	723	CD1	LEU E	356	-17.729	71.248	16.191	1.00 25.43	6
	ATOM	724	CD2	LEU E	356	-19.430	72.363	14.808	1.00 27.49	6
	ATOM	725	С	LEU E	356	-18.084	68.260	13.883	1.00 30.44	6
	ATOM	726	0	LEU E	356	-18.054	67.445	14.804	1.00 31.55	8
	MOTA	727	N	GLY E	357	-18.972	68.214	12.891	1.00 32.69	7
	ATOM	728	CA	GLY E	357	-20.001	67.186	12.846	1.00 29.87	6
	ATOM	729	С	GLY E	357	-19.486	65.832	13.279	1.00 33.12	6
	MOTA	730	0	GLY E	357	-20.032	65.246	14,207	1.00 29.41	8
•	ATOM	731	N	MET E	358	-18.444	65.351	12.593	1.00 33.31	7
	MOTA	732	CA	MET E	358	-17.834	64,066	12.902	1.00 35.87	6
	ATOM	733	CB	MET E	358	-16.513	63.903	12.151	1,00 34.56	6
	ATOM	734	CĢ	MET E	358	-16.649	63.908	10.657	1.00 46.43	6
	MOTA	735	SD	MET E	358	-15.094	63.597	9.751	1.00 42.13	16
	MOTA	736	CE	MET B	358	-14.121	65.063	10.228	1.00 44.29	6
	MOTA	737	С	MET E	358	-17.552	63.976	14.392	1,00 33.26	6
	ATOM	738	0	MET E	358	-18.019	63.075	15.075	1.00 36.39	8
	MOTA	739	N	SER B	359	-16.766	64.933	14.875	1.00 33.31	7
	ATOM	740	CA	SER B	359	-16.380	64.998	16.270	1.00 34.39	6
	ATOM	741	СВ	SER E		-15.724	66.339	16.541	1.00 30.84	6
	ATOM	742	OG	SER B		-15.130	66.355	17.825	1.00 47.14	8
	ATOM	743	С	SER B		-17.579	64.813	17.169	1.00 36.43	6
	ATOM	744	0	SER B		-17.635	63.853	17.922	1.00 35.46	8
	ATOM	745	N	LEU B		-18.525	65.744	17.079	1.00 36.74	7
	ATOM	746	CA	LEU B		-19.741	65.729	17.889	1.00 35.44	6
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	ATOM	748	CG	LEU B		-20.263	68.255	17.575	1.00 34.59	6
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	ATOM	860	0	GLN	B 37	4	-26,733	80,307	20.994	1.00 24.47		
•	ATOM	861	N	ALA	B 37	5	-27.429	79,182	22.825	1.00 16.26		
	ATOM	862	CA	ALA	B 37	5 .	-27.639	80.374	23.631	1.00 17.16		
	ATOM	863	CB	ALA			-28.435	80.025	24.865	1.00 19.53	3 6	•
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	MOTA	865	0	ALA			-26.074	82.154	23.833	1.00 23.81	. 8	
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	atom	867	CA	VAL			-24.102	80.526	24.986	1,00 25.86	6	
	atom	868	CB		B 37		-23.192	79.321	25.234	1.00 26.48		
	ATOM	869	CG1				-21.806	79.780	25.620	1.00 23.20		
	MOTA	870	CG2	VAL			-23.771	78.433	26.310	1.00 19.08		
	MOTA	871	C	VAL			-23.510	81.403	23.898	1.00 25.65		-
	ATOM	872	0	VAL			-22.796	82.364	24.166	1.60 27.97		
	ATOM	873 274	N	LEU			-23.827	81.049	22.659	1.00 23.09		
	ATOM ATOM	874 875	CA CB	LEU			-23.340	81.774	21.492	1.00 22.86		•
	ATOM	876	CG	LEU	B 37 B 37		-23.552	80.920	20.230	1.00 18.50		
	ATOM	877		LEU			-22.756 -23.221	79.638 78.786	20.146	1.00 22.65		
	ATOM	878		LEU			-21.300	79.995	20.000	1.00 16.76		
	ATOM	879	C	LEU			-24.073	83.102	21.384	1.00 19.36		
	MOTA	880	ŏ	LEU			-23.464	84.164	21.419	1.00 20,62		
	ATOM	881	N	LEU		•	-25,396	83.023	21.265	1.00 28.99		
	ATOM	882	CA	LEU			-26.228	84.217	21.147	1.00 28.87		
	MOTA	883	СВ	LEU			-27.696	83.894	21.450	1.00 26.89		
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	MOTA	885	CD1	LEU	B 378	3	-28.507	85.854	20.225	1.00 27.97		
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	MOTA	888	0	LEU			-25.398	86.379	21.651	1.00 31.77		
	ATOM	889	N	MET			-25.695	84.931	23.376	1.00 31.44		
	ATOM	890	CA	MET			-25,291	85.851	24.434	1.00 32.62		
	ATOM	891	CB	MET :				85.335		1.00 31.45		
	ATOM	892	CG	MET :			-27.332	85.262	25.883	1.00 38.75		
	ATOM	893	SD	MET :			-28.020	86.915	25.550	1.00 41.27		
	ATOM ATOM	894 895	CE	MET I			-29.814	86.586	25.513	1.00 35.68		
		896		MET I			-23.796	86.129	24.538	1.00 33.72		
	ATOM ATOM	897	o N	SER I			-23.246 -23.152	86.190 86.335	25.633	1.00 36.29		
	ATOM	898	CA	SER I	-		-23.132	86,659	23.399 23.391	1.00 34.49		
	ATOM	899	СВ	SER I			-21.132	86.360	22.010	1.00 33.97 1.00 31.24		
	ATOM	900		SER I			-21.224	84,978	21.696	1.00 31.24		
	ATOM	901	c	SER I			-21.635	88.145	23.705	1.00 39.42		
	ATOM	902	-	SER I			-22.084		22.933	1.00 44.64		
	ATOM	903		SER I			-21.053	88.451	24.857	1.00 41.04		
	ATOM	904		SER I			-20.907	89.826	25.308	1.00 44.91		
	ATOM	905		SER I			-20.610	89.832	26.797	1.00 44.50		
	ATOM	906		SER I			-19.351	89.229	27.037	1.00 45.42		
	MOTA	907		SER I			-19.815	90.614	24.602	1.00 44.59		
	MOTA	908		SER E			-19.725	91.825	24.751	1.00 49.32		
	ATOM	909		ASP I			-18.977	89.922	23.848	1.00 43.75		
	ATOM	910	CA	ASP E	382		-17.886	90,556	23.144	1.00 43.93		

	MOTA	911	СВ	ASP	В	382	-16.727	89.562	23.028	1.00	48.39	6
	MOTA	912	ÇG	ASP	В	382	-17.142	88.232	22.471	1.00	53,23	6
	MOTA	913	OD1	ASP	В	382	-18.102	87.621	23.002	1.00	56.97	8
	ATOM	914	OD2	ASP	В	382	-16.513	87.753	21.480	1.00	58.91	8
	MOTA	915	C	ASP	В	382	-18.191	91.172	21.772	1,00	41.09	6
	ATOM	916	0	ASP	В	382	-17.366	91.899	21,229	1,00	40.93	8
	ATOM	917	N	ARG	В	383	-19.369	90.908	21,224	1.00	42.63	7
	ATOM	918	CA	ARG	В	383	-19.698	91.445	19.934	1.00	43.32	б
	ATOM	919	СВ	ARG	В	383	-21.131	91.101	19.557	1.00	42.31	6
	ATOM	920	CG			383	-21.619	89.672	19,811		40.83	6
	ATOM	921	CD			383	-21.144	88.627	18.804		38.09	6
	ATOM	922	NE	ARG			-21,922	87.415	18.943		37.33	7
	ATOM	923	CZ	ARG			-21.584	86.250	18.411		38.35	6
	ATOM	924	NH1	ARG			-20.465	86.143	17.700		33.70	7.
	ATOM	925	NH2	ARG			-22.369	85.196	18.604		35.46	7
	ATOM	926	С	ARG			-19.591	92.958	20,007		44.96	6
	ATOM	927	ō	ARG			-20.050	93.577	20,980		45.60	- 8
	ATOM	928	N	PRO			-18.975		19.005	1.00		7
	ATOM	929	CD	PRO			-18.395	92.881	17.854	1,00		6
	ATOM	930	CA	PRO			-18.808	95.035	18,947	1.00		6
	MOTA	931	СВ	PRO			-17.868	95.255	17.764	1.00		6
	ATOM	932	CG	PRO			-17.575	93.934	17.187	1.00		6
	ATOM	933	C	PRO			-20.125	95,778	18.762	1.00		6
•	ATOM	934	ō	PRO			-21.048	95.277	18.120	1.00		8
	ATOM	935	N			385	-20.185	96.994	19.314	1.00		7
	MOTA	936	CA	GLY			-21.371	97.838	19.192	1.00		6
	ATOM	937	Ċ	GLY			-22.410	97.615	20.265		50.70	6
	ATOM	938	0	GLY			-23.382	98.363	20.374		53.48	8
	ATOM	939	N	LEU			-22.205	96.557	21.044	1.00		7
	ATOM	940	CA	LEU			-23.136	96.211	22.101	1,00	50.53	6
	ATOM	941	СВ	LEU	В	386	-22.640	94.972	22.853	1.00	45.17	6
	ATOM	942	CG	LEU	В	386	-22.744	93.653	22.121	1.00	48.26	6
	MOTA	943	CD1	LEU	В	386	-22.122	92.525	22.938	1.00	41.68	6
	ATOM	944	CD2	LEU	В	386 -	-24.215	93.376	21.852	1.00	38.40	6
	ATOM	945	C	LEU	В	386	-23.322	97.357	23.058	1,00	52.13	6
	ATOM `	946	0	LEU	В	386	-22,438	98.182	23,234	1.00	53.67	.8
	ATOM	947	N	ALA	В	387	-24,499	97.398	23.666	1.00	53.42	7
	MOTA	948	CA	ALA	В	387	-24.830	98.441	24.624	1.00	56.01	6
	ATOM	949	CB	ALA	В	387	-26.223	98.993	24.339	1,00	56.47	6
	ATOM	950	С	ALA	В	387	-24.775	97.853	26,024	1.00	55.52	6
	ATOM	951	0	ALA	В	387	-23.798	98.027	26.753	1.00	53.75	8
	ATOM	952	N	CYS	В	388	-25,843	97.145	26.371	1.00	56.03	7
	ATOM	953	CA	CYS	В	388	-26,000	96.525	27.673	1.00	59.57	б
	ATOM	954	CB	CYS	B	388	-27.469	96.134	27.839	1,00	59.23	б
	ATOM	955	SG	CYS	В	388	-28,620	97.392	27.264	1.00	58.64	16
	ATOM	956	С	CYS	В	388	-25.105	95.283	27.798	1.00	62.18	6
	ATOM	957	0	CYS	В	388	-25.590	94.164	27.868	1.00	67.88	8
	ATOM	958	N	VAL	В	389	-23.789	95.510	27.824	1.00	60.78	7
	ATOM	959	CA	VAL	В	389	-22.797	94.434	27.959	1.00	57.70	6
	ATOM	960	СВ	VAL			-21.355	94.976	27.998		57.09	6
	ATOM	961	CG1				-20.361	93.832	28.085		59.03	6
	ATOM	962		VAL			-21.065	95.845	26.791		53.98	6
	MOTA	963	С	VAL			-23.078	93.642	29.230		57.77	6
	ATOM ·	964	0	VAL			-23.727	92.602	29.203		60.94	8
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MOTA	965	N	ALA	в 390	-22.561	94.159	30,332	1.00 52.68	
ATOM	966	CA	ALA	B 390		93.570	31,659	1.00 48.41	6
ATOM	1 967	CB	ALA	B 390	-22.650	94.681	32.716	1.00 45.19	6
ATOM	968	С	ALA	B 390	-23.905	92.697	31.877	1.00 47.63	6
ATOM	969	0	ALA	B 390	-23.784	91.576	32.369	1.00 51.95	8
ATOM		N	ARG	B 391	-25.075	93.216	31.498	1.00 47.11	
ATOM		ÇA		B 391	-26.330	92.481	31.656	1.00 51.64	
ATOM	•	CB		B 391	-27.502	93.318	31.122	1.00 54.22	
ATOM		CG		B 391	-28.887	92.713	31.430	1.00 64.20	
ATOM		CD		B 391	-30.059	93.582	30.929	1.00 73.80	
ATOM		NE		B 391	-31.361	93.097	31.378	1.00 79.76	
ATOM		CZ		B 391	-31.736	93.015	32.656	1.00 84.27	
		NH1		B 391	-30.887	93.372	33.625	1.00 85.28	
ATOM		NH2		B 391	-32.957	92.566	32.955	1.00 86.84	
ATOM		C		B 391	-26.277	91.133	30.940	1.00 48.18	
ATOM				B 391	-26.277	90.119	•	1.00 49.57	
ATOM		Ö			-		31.465		
ATOM		N		B 392	-25.743	91.167	29.718	1.00 45.01	
ATOM		CA		B 392	-25.592	89.999	28.867	1.00 48.77	
ATOM		CB		в 392	-25.112	90.424	27.469	1.00 46.45	
AŢOM		CG2		B 392		89.221	26.614	1.00 42.35	
ATOM		CG1		B 392	-26.178	91.283	26.768	1.00 49.69	
ATOM		CD1		B 392	-25.762	91,768	25.386		
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ATOM		0		B 392	-25.086	87.780	29.605	1.00 52.21	
ATOM		N		B 393	-23.431	89.298	29.790	1.00 50.43	
ATOM		CA		B 393	-22.504	88.328	30.378	1.00 50.30	
ATOM		CB		B 393	-21.314	89.022	31.044	1.00 53.97	
ATOM		CG		B 393	-20.063	89.005	30.209	1.00 62.18	•
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ATOM		OE1	GLU		-17.709	89.264	30,656	1.00 66.42	
ATOM		OE2		B 393	-18.897	89.976	32.052	1.00 70.64	
ATOM		С	GLU		-23.251	87.477	31.416	1.00 49.31	
ATOM		0	GLU		-23.226	86.260	31.303	1.00 49.53	
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ATOM		CA		B 394	-24.721	87.579	33.506	1.00 45.76	
ATOM		СВ		B 394	-25.594	88.693	34.161	1.00 43.85	
ATOM					-25.626	86,548	32.851	1.00 46.69	
ATOM		0		B 394	-25.772	85.430	33.329	1.00 49.13	
ATOM		N		B 395	-26.203	86.948	31.719	1.00 46.57	
ATOM		CA		B 395	-27.076	86.078	30.938	1.00 43.33	
ATOM		CB		B 395	-27.621	86.821	29.716	1.00 48.44	
ATOM		CG		B 395	-28.827	87.688	29.980	1.00 53.83	
MOTA		CD1		В 395	-29.204	88.680	29.080	1.00 56.43	
MOTA		CE1		B 395		89.469	29.309	1.00 59.73	
ATOM		CD2		B 395	-29.596	87.509	31.113	1.00 56.47	
MOTA		CE2		в 395	-30.723	88.295	31.346	1.00 62.60	
ATOM		CZ		В 395	-31.090	89.281	30.446	1.00 63.18	
MOTA		ОН		B 395	-32.189	90.068	30.671	1.00 64.46	
MOTA		С		В 395	-26.276	84.867	30.485	1.00 37.30	
MOTA		0		в 395	-26.611	83.737	30.825	1.00 34.10	
ATOM		N		в 396	-25.213	85.108	29.718	1.00 31.92	
ATOM		CA		B 396	-24.380	84.018	29.244	1.00 34.81	6
ATOM		CB		B 396	-23.176	84.550	28.464	1.00 32.64	6
ATOM	1018	CG	GLN :	B 396	-22.184	83.470	28.103	1.00 29.57	б

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ATOM
                                                                               б
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                   LEU B 400
ATOM
              ¢
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MOTA
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73.908
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MOTA
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ATOM
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ATOM
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ATOM
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                    PHE B
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                                                                1.00 30.73
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ATOM	1343	. 0			433	-14.849	85,432	10.171	1.00 31.60	8 .	
ATOM	1344 1345	N CA			434	-14.534 -14.023	83.246	10.439	1.00 33.22	9	
ATOM ATOM	1345	CB			434	-13.553	83.021 81.661	9.120 9.226	1.00 34.34	.6	
MOTA	1347	SG			434	-12.412	81.249	8.444	1.00 35.20 1.00 54.48	6	
ATOM	1348	C			434	-15.106	83.116	8.062	1.00 34.09	16 6.	
ATOM	1349	0			434	-14.844	83.555	6.952	1.00 34.09		
ATOM	1350	N			435	-16.318	82.699	8.394	1.00 34.89	- 8 7	
ATOM	1351	ÇA			435	-17.395	82,762	7,443	1.00 34.30	6	
ATOM	1352	СВ			435	-18.700	82.404	8,103	1.00 33,44	6	
ATOM	1353	CG			435	-19.845	82.425	7.149	1.00 32.03	6	
ATOM	1354				435	-20.483	81.419		1.00 28.61	6	
ATOM	1355				435	-20.345	83.600	6.607	1.00 28.48	7	
ATOM	1356				435	-21.241	83.293	5.672	1.00 33.27	6	
ATOM	1357				435	-21.341	81.977	5.605	1.00 31.57	7	
ATOM	1358	C			435	-17.528	84.152	6.878	1.00 32.74	6	
ATOM	1359	0			435	-17.842	84.326	5.715	1.00 32.87	8	
ATOM	1360	N			436	-17.315	85.121	7.758	1.00 31.01	7	
ATOM	1361	CA	ALA	В	436	-17.376	86.520	7.405	1.00 29.91	6	
MOTA	1362	СВ			436	-17.008	87.352	8.618	1.00 21.23	6	
MOTA	1363	С	ALA	В	436	-16,393	86.782	6.266	1,00 33.86	6	
ATOM	1364	0	ALA	В	436	-16.734	87.398	5.257	1.00 36,10	8	
MOTA	1365	N	SER	В	437	-15.162	86.307	6.448	1.00 35.19	7	
ATOM	1366	CA	SER	В	437	-14.122	86.484	5.445	1.00 33.03	6	
ATOM	1367	CB			437	-12.882	85.688	5.847	1.00 35.31	6	
MOTA	1368	OG			437	-11.855	85.824	4.879	1.00 44.99	8	-
ATOM	1369	С			437	-14.642	85.993	4.108	1.00 38.39	6	
ATOM	1370				437	-14.700	86.730	3.127	1.00 37.54	8	
ATOM	1371	N .			438	-15.008	84.719	4.096	1.00 37.32	7	
ATOM	1372	CA.			438	-15.526	84.068	2.908	1.00 39.30	6	
MOTA	1373	CB	ARG		438	-16.019	82.660	3.259	1.00 42.97	6	
MOTA	1374	CG			438	-14.910	81.673	3.590	1.00 41.72	6	
ATOM ATOM	1375 1376	CD NE			438 438	-14.044	81.488	2.356	1.00 45.23	6	
ATOM	1377	CZ			438	-14.781 -14.482	80.936 81.175	1.235 -0.040	1.00 45.66 1.00 49.71	7	
ATOM	1378		ARG			-13.458	81.977	-0.347	1.00 50.91	6 7	
	1379		ARG		438	-15.219	80.619	-1.002	1.00 46.86	7	
ATOM	1380	C			438	-16.659	84.859	2.287	1.00 42.37	6	
ATOM	1381	Ö			438	-16.841	84.832		1.00 42.57	. 8	
ATOM	1382	N			439	-17.417	85.575	3.117	1.00 42.25	7	
ATOM	1383	CA			439	-18.531	86.354	2.614	1.00 42.81	6	
ATOM	1384	CB			439	-19.198	87.132	3,731	1.00 42.18	6 .	
ATOM	1385	CG			439	-20.487	87.769	3.323	1.00 42.48	6	
ATOM	1386		PHE			-21,535	86.981	2.912	1.00 47.09	6	
ATOM	1387	CD2				-20.638	89.141	3.334	1.00 39.76	6	
ATOM	1388	CE1				-22.735	87.543	2.527	1.00 49.17	6	•
ATOM	1389	CE2			439	-21.851	89.717	2.944	1.00 45.10	6	
ATOM	1390	CZ	PHE	В	439	-22.901	88.911	2.538	1.00 46.36	6	
ATOM	1391	С	PHE	В	439	-18.016	87.319	1.581	1.00 44.79	6	
ATOM	1392	0	PHE	В	439	-18.514	87.354	0.465	1.00 40.26	8	
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	MOTA	1562	CB			460	-23.851	1	93.487	4.505		72.95	6
	ATOM	1563	CG			460	-22.917	7	94.002	3.412	1.00	78.35	6
	MOTA	1564	CD			460	-22.908	8	95.480	3.256		82.97	б
•	MOTA	1565	OE1				-23.257		96.213	4.217		88.28	8
	MOTA	1566	OE2				-22.524		95.977	2.167		84,80	8
	MOTA	1567	c			460	-22.796		93.576	6.786		71.87	6
	MOTA	1568	0	GĻU			-23.471		93.391	7.802		74.51	8
	MOTA	1569	N	ASP			-21.796		94.449	6.696		78.50	7
•	MOTA	1570	CA	ASP			-21.401		95.328	7.701		84.19	б
	MOTA	1571	CB	ASP			-20.182		96.032	7.125		85.82	6
	MOTA	1572	CG	ASP			-19.261		95.066	6.463		89.62	6
	ATOM	1573		ASP			-19.670		93.929	5.982		93,00	8
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	ATOM	1575	C	ASP			-22.540		96.291	8.012		86.80	6
	MOTA	1576	0.	ASP			-23.063		96.176	9.139		88.70	8
	ATOM TER	1577	OXT	ASP	В	401	-22,962	_	97.048	7.098	1.00	88.70	8
	ATOM	4002	C1	т3	J	1	20.152	,	36.643	29.561	1 00	22.34	6
-	ATOM	4002	Ç2	T3	J	1	19.021		41.567	29.283		21.84	6 6
,	ATOM	4004	C3	T3	J	1	18.880		37.086	29.226		23.43	6
	ATOM	4005	C4	т3	J	ī	18.249		42.606	28.776		22.31	6
	ATOM	4006	C5	т3	J	1	18.747		38.372	28.866		24.83	6
	ATOM	4007	C6	т3	J	1	17.938		43.621	29.664		25.16	6
	ATOM	4008	C7	T3	J	1	19.799		39.296	28.753		24.65	6
	ATOM	4009	C8	TЭ	J	1	18.330		43.594	31,028		21.93	6
	ATOM	4010	C9	T3	J	1	21.101		38.940	29.075		25.09	6
	ATOM	4011	C10	T3	J	1	19.063	3	42.558	31.465	1.00	23.66	б
	ATOM	4012	C11	Т3	J	1	21.254	l	37.600	29.456	1.00	23.12	6
	MOTA	4013	C12		J	1	19.459	•	41.490	30.621	1.00	19.67	6
	MOTA	4014	C13		J	1	20.370		35.228	30.075	1.00	18.97	6
	ATOM	4015	C15		J	1	21.549		34.480	29.455		19.32	6
	ATOM	4016	C17		J	1	21.535		33.003	29.710		19.02	6
	ATOM	4017	I1	Т3	J	1	16.898		39.029			25.29	53
	ATOM	4018	12	T3	J	1	17.058		45.327	29.154		26.49	53
	ATOM	4019	13	T3	J	1	22.763		40.262	29.169		25.67	53
	ATOM	4020	N1	T3	J	1	21.800		34.859	28.024		15.12	7
	ATOM	4021	01	T3	J -	1	17.934		44.682	31.806	•	21.79	8
	ATOM	4022	02	T3	J	1	19.432		40.560	28.362		22.05	8
	ATOM	4023	O3 O4	T3	J	1	21.911		32.260	28.776		20.38	8
•	ATOM TER	4024	O4	Т3	J	1	21.137		32.622	30.840	1.00	20.16	8
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	ATOM	4032			K	1	-23.382		30.104	3.772		21.93	6
	ATOM	4033			ĸ	1	-25.685		75.833	6.855		25.09	6
	ATOM	4034	C10		K	1	-23.867		79.823	5.042		23.66	6

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ATOM	4039	C17	т3	K	1	-30.4	40 74	.343	10.264	1.00	19.02	6
ATOM	4040	I1	T 3	K	1	-27.8	68 77	.342	3.316		25.29	53
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ATOM	4047	04	Т3	К	1	-31.0		.359	10.729		20.16	8
TER	3011	0.1	. .	•	_	31.0	-0 , 3	. 505	10.725	1.00	20.10	•
ATOM	1	С	T.YS	Y	686	13.80	58 40	.176	48.888	1 00	40.00	6
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ATOM	25		ILE			8.25		.183	41.688		40.00	6
ATOM	26	• • • • • • • • • • • • • • • • • • •	ILE			10.95		.869	45.228	_	40.00	6
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ATOM	39	CG	HIS			12.58		116	50.564		40.00	6
ATOM	40		HIS			13.64		852	51.385		40.00	6
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                                                                                8
 ATOM
           46
                N
                    ARG X 692
                                      10,839
                                               31.494
                                                        47.167
                                                                 1.00 40.00
                                                                                7
 MOTA
           47
                CA
                    ARG X 692
                                                        46.518
                                     10.169
                                               30.333
                                                                 1.00 40.00
                                                                                б
 MOTA
           48
                CB
                    ARG X 692
                                       9.118
                                              30.800
                                                        45.517
                                                                 1.00 40.00
                                                                                6
 ATOM
           49
                C
                    ARG X 692
                                     11.153
                                              29.402
                                                        45.752
                                                                 1.00 40.00
                                                                                6
           50
 ATOM
                0
                    ARG X 692
                                     11.030
                                              28,168
                                                        45.779
                                                                 1.00 40.00
                                                                                8
 ATOM
           51
                N
                    LEU X 693
                                     12.117
                                              30.000
                                                        45.072
                                                                                7
                                                                 1.00 40.00
 ATOM
           52
               CA
                    LEU X 693
                                     13.078
                                              29.252
                                                        44.226
                                                                 1.00 40.00
                                                                                6
           53
 ATOM
               CB
                    LEU X 693
                                     13.784
                                              30.210
                                                        43.274
                                                                 1.00 40.00
                                                                                б
           54
 MOTA
               CG
                    LEU X 693
                                     12.796
                                              31.012
                                                        42.432
                                                                 1.00 40.00
                                                                                б
ATOM
           55
               CD1 LEU X 693
                                              31.969
                                     13.479
                                                        41.458
                                                                 1.00 40.00
                                                                                б
           56
ATOM
               CD2
                   LEU X 693
                                     11.884
                                              30.126
                                                        41.579
                                                                 1.00 40.00
                                                                                б
ATOM
           57
               C
                    LEU X 693
                                     14.143
                                              28.531
                                                        45.054
                                                                 1.00 40.00
                                                                                6
ATOM
           58
               0
                    LEU X 693
                                     14.702
                                              27.508
                                                        44.633
                                                                 1.00 40.00
                                                                                8
ATOM
           59
               N
                    LEU X 694
                                     14.400
                                              29.079
                                                        46.209
                                                                 1.00 40.00
                                                                                7
           60
ATOM
               CA
                    LEU X 694
                                     15.407
                                              28.538
                                                        47.115
                                                                 1.00 40.00
                                                                                6
ATOM
           61
               CB
                    LEU X 694
                                     15.871
                                              29.626
                                                        48.084
                                                                 1.00 40.00
                                                                                6
ATOM
           62
               CG
                    LEU X
                           694
                                     16.692
                                              30.716
                                                        47.404
                                                                 1.00 40.00
                                                                                б
ATOM
           63
               CD1 LEU X
                          694
                                     17.279
                                              31.724
                                                        48,391
                                                                 1.00 40.00
                                                                                6
ATOM
           64
               CD2 LEU X
                          694
                                     17.879
                                              30.156
                                                        46.619
                                                                 1.00 40.00
                                                                                6
ATOM
           65
               C
                    LEU X
                          694
                                     14.837
                                              27.404
                                                        47.957
                                                                 1.00 40.00
                                                                                6
ATOM
           66
               0
                    LEU X 694
                                     15.555
                                              26.747
                                                        48.716
                                                                 1.00 40.00
                                                                                8
ATOM
                    GLN X 695
           67
               N
                                     13.554
                                              27.157
                                                       47.809
                                                                 1.00 40.00
                                                                                7
MOTA
           68
               CA
                    GLN X
                           695
                                     12.883
                                              26.188
                                                       48.685
                                                                 1.00 40.00
                                                                                6
ATOM
          69
               C
                    GLN X
                          695
                                     12.423
                                              24.910
                                                       47.977
                                                                 1.00 40.00
                                                                                6
ATOM
          70
               0
                    GLN X 695
                                     12.309
                                              23.845
                                                       48.598
                                                                 1.00 40.00
                                                                                8
MOTA
          71
               CB
                    GLN X 695
                                     11.681
                                              26.858
                                                       49.322
                                                                 1.00 40.00
                                                                                6
ATOM
          72
               CG
                    GLN X 695
                                     12.074
                                              28.125
                                                       50.080
                                                                 1.00 20.00
                                                                                б
ATOM
          73
               CD
                    GLN X 695
                                     10.899
                                              28,768
                                                       50.801
                                                                 1.00 20.00
                                                                                6
ATOM
          74
               OE1 GLN X 695
                                      9.772
                                              28.296
                                                       50,671
                                                                 1.00 20.00
                                                                                8
ATOM
          75
               NE2 GLN X 695
                                     11.092
                                              29.828
                                                       51.560
                                                                 1.00 20.00
                                                                                7
ATOM
          76
               N
                    ASP
                        X 696
                                     12.155
                                              25.020
                                                       46.714
                                                                 1.00 40.00
                                                                                7
ATOM
          77
               CA
                    ASP X 696
                                     11.698
                                              23.885
                                                       45.910
                                                                 1.00 40.00
                                                                                6
ATOM
          78
               CB
                   ASP X 696
                                     11.450
                                              24.400
                                                       44,497
                                                                 1.00 40.00
                                                                                6
ATOM
                    ASP X 696
          79
               CG
                                     10.782
                                              23.411
                                                       43.548
                                                                 1,00 40.00
                                                                                б
ATOM
          80
               OD1 ASP X
                          696
                                     10.550
                                              22.203
                                                       43.920
                                                                 1.00 40,00
                                                                               8
ATOM
          81
               OD2 ASP X 696
                                     10.449
                                              23.804
                                                       42.362
                                                                 1.00 40.00
                                                                               8
ATOM
          82
               C
                   ASP X 696
                                     12.774
                                              22.806
                                                       45.876
                                                                 1.00 40.00
                                                                               б
ATOM
          83
               0
                   ASP X 696
                                     13.937
                                              23.077
                                                       45.562
                                                                 1.00 40.00
                                                                               8
ATOM
          84
               N
                   SER X 697
                                     12.370
                                              21.610
                                                       46.213
                                                                1.00 40.00
                                                                               7
ATOM
          85
               CA
                   SER X 697
                                     13,258
                                              20.453
                                                                1.00 40.00
                                                       46.128
                                                                               6
ATOM
          86
               CB
                   SER X 697
                                    12.685
                                              19.371
                                                       47.049
                                                                1.00 40.00
                                                                               6
MOTA
          87
               OG
                   SER X 697
                                    12.535
                                              19.899
                                                       48.374
                                                                1.00 40.00
                                                                               8
MOTA
          88
               C ·
                   SER X 697
                                    13,329
                                              20.130
                                                                1.00 40.00
                                                       44,613
                                                                               6
ATOM
          89
               0
                   SER X 697
                                    14.247
                                                                1.00 40.00
                                              20.573
                                                       43.914
                                                                               8
MOTA
          90
               N
                   SER X 698
                                    12.355
                                              19.357
                                                       44.183
                                                                1.00 40.00
                                                                               7
MOTA
          91
               CA
                   SER X
                          698
                                    11.985
                                              19.100
                                                       42.752
                                                                1.00 40.00
                                                                               6
MOTA
          92
               CB
                   SER X
                          698
                                    11.693
                                              20.417
                                                       42.036
                                                                1.00 40.00
                                                                               6
MOTA
          93
               OĢ
                   SER X
                          698
                                    10.510
                                              21.000
                                                       42.577
                                                                1,00 40.00
                                                                               8
          94
ATOM
               C.
                   SER X 698
                                    12.887
                                              18.340
                                                       41.758 1.00 40.00
                                                                               6
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						•			
MOTA	95	0	SER	x 698	13.253	17.158	42.026	1.00 40.00	8 -
ATOM	96	OX1	SER	X 698	13.131		40.714	1.00 40.00	8
TER								2140 14100	•
MOTA	1	CB	LYS	Y 688	-33.793	96.885	6.491	1.00 40.00	6
ATOM	2	С		Y 688	-35.002		8.130	1.00 40.00	6
ATOM	3	Ō		Y 688	-36.027		8.779	1.00 40.00	8
ATOM	4	N		Y 688	-32.717		8.695	1.00 40.00	7
ATOM	5	CA		Y 688	-34.040		7.954	1.00 40.00	6
ATOM	6	N		Y 689	-34.578		6.908	1.00 40.00	7
ATOM	7	CA		Y 689	-35.862		7.268		6
ATOM	8	CB		Y 689	-35.971		6.572	1.00 40.00	6
ATOM	9	CG2		Y 689	-37.270		6.932	1.00 40.00	6
ATOM	10	CG1		Y 689	-35.917		5.062		6
ATOM	11	CD1		Y 689	-36.341	90.691	4.289	1.00 40.00	6
ATOM	12	C		Y 689	-36.032	92.870	8.780	1.00 40.00	6
ATOM	13	0		Y 689	-36.913		9.442	1.00 40.00	8
ATOM	14	N		Y 690	-35.019		9.787	1.00 40.00	• 7
ATOM	15	CA		Y 690	-34'.956		11.163	1.00 40.00	6
ATOM	16	СВ		Y 690	-33.528	92.432	11.697	1.00 40.00	6
ATOM '	17	CG		Y 690	-32.516	91.647	10.864	1.00 40.00	6
ATOM	18	CD1			-31.087	91.764	11.397	1.00 40.00	6
ATOM	19	CD2			-32.819	90.148	10.812	1.00 40.00	6
ATOM	20	C	LEU		-35.899	93.123	12.065	1.00 40.00	6
ATOM	21	0	LEU Y		-36.570	92.492	12.928	1.00 40.00	8
ATOM	22	N	HIS		-36.039	94.731	11.373		7
ATOM	23	CA	HIS		-36.634	94.923	12.683	1.00 40.00	6
ATOM	24	CB	HIS Y		-36.854	96.383	12.935	1.00 40.00	6
ATOM	25	CG	HIS Y		-35.610	97.153	13.078	1.00 40.00	6
ATOM	26	CD2	HIS Y	691	-34.757	97.640	12.159	1.00 40.00	6
ATOM	27	ND1	HIS Y	691	-35.129	97.579	14.319	1.00 40.00	7
ATOM	28	CE1	HIS Y	691	-34.039	98.290	14.122	1.00 40.00	6
ATOM	29	NE2	HIS Y	691	-33.786	98.346	12.815	1.00 40.00	. 7
ATOM	30	С.	HIS Y	691	-37.972 ⁻	94.287	12.756	1.00 40.00	б
ATOM	31	0	HIS Y	691	-38.240	93.417	13.545	1.00 40.00	8
ATOM	32	N	ARG Y	692	-38.265	94.388	11.505	1.00 40.00	7
MOTA	33	CA	ARG Y		-39.577	93.869	11.276	1.00 40.00	6
MOTA	34	CB	ARG Y		-39.653	93.692	9.795	1.00 40.00	б
ATOM	35	CG	ARG Y		-40.759	92.764	9.329	1.00 40.00	6
MOTA	36	CD	ARG Y		-40.618	92.422	7.848	1.00 40.00	6
ATOM	37	NE	ARG Y		-41.849	92.641	7.091	1.00 40.00	7.
MOTA	38	CZ	ARG Y		-41.898	92.758	5.763	1.00 40.00	6
MOTA	39		ARG Y		-40.784	92.695	5.024	1.00 40.00	7
ATOM	40		ARG Y		-43.034	92.940	5.080	1,00 40,00	7
MOTA	41	С	ARG Y		-39.941	92.547	11.995	1.00 40.00	б.
MOTA	42	0	ARG Y		-41.001	92.440	12.649	1.00 40.00	8
MOTA	43	N	LEU Y		-39.095	91.576	11.816	1.00 40.00	7
MOTA	44	CA	LEU Y		-39.230	90.232	12.395	1.00 40.00	6
ATOM	45	CB	LEU Y		-38.362	89.337	11.615	1.00 40.00	6
ATOM	46	CG	TEA X		-38.737	89.375	10.132	1.00 40.00	.6
ATOM	47		LEU Y		-37.794	88.570	9.247	1.00 40.00.	6
ATOM	48		LEU Y		-40.142	88.827	9.862	1.00 40.00	6
MOTA	49	С	LEU Y		-38.921	90.378	13.816	1.00 40.00	6
ATOM	50	0	LEU Y		-39.191	89.474	14,615	1.00 40.00	8
ATOM	51	N	LEU Y	694	-38.366	91.533	14.076	1.00 40.00	7

MOTA	52	CA	LEU	Y	694	-38.174	91.885	15.435	1.00	40.00	6 -
ATOM	53	CB	LEU	Y	694	-37.181	93.002	15.561	1.00	40.00	6
ATOM	54	CG	ĻEU	Y	694	-35.799	92.377	15.869	1.00	40.00	6
ATOM	55	CD1	LEU	Y	694	-34.897	93.275	16.702	1.00	40.00	6
ATOM	56	CD2	LEU	Y	694	-35.897	91.055	16.661	1.00	40,00	6
ATOM	57	С	LEU	Y	694	~39.596	91.903	15.915	1.00	40.00	6
MOTA	58	0	LEU	Y	694	-39.985	91.253	16.858	1.00	40.00	8
MOTA	59	N	GLN	Y	695	-40.787	92.229	15.048	1.00	40.00	7
ATOM	60	CA	GLN	Y	695	-42.034	91.457	15.543	1.00	40.00	6
MOTA	61	С	GLN	Y	695	-43.054	90.901	14.240	1.00	40.00	6
MOTA	62	0	GLŅ	Y	695	-43.102	91.557	13.189	1.00	40.00	8
MOTA	63	CB	GLN	Y	695	-42.362	92,025	16.923	1.00	40.00	6
MOTA	64	CG	GLN	Y	695	-41.013	92.101	17.768	1.00	40.00	6
MOTA	65	ÇD	GLN	Y	695	-40.943	91.235	19.059	1.00	40.00	6
MOTA	66	OEl	GLN	Y	695	-41.828	90.426	19.318	1.00	40,00	8
ATOM	67	NE2	GLN	Y	695	-39.938	91.399	19.916	1.00	40.00	7
MOTA	68	N	ASP	Y	696	~43.802	89.498	14.402	1.00	40.00	7
MOTA	69	CA	ASP	Y	696	-44.784	88.354	13.428	1.00	40,00	6
MOTA	70	С	ASP	Y	696	-46.034	88.934	12.759	1.00	40.00	6
MOTA	71	O.	ASP	Y	696	-46.266	88.655	11.529	1.00	40.00	8
MOTA	72	CB	ASP	Y	696	-45.211	87.192	14.322	1.00	40.00	6
MOTA	.73	CG	ASP	Y	696	-44.021	86.560	15.058	1.00	40.00	6
MOTA	74		ASP			-42.823	86.994	14.844		40.00	8
MOTA	75	OD2	ASP	Y	696	-44.212	85.591	15.889	1.00	40.00	8
END								,			
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Appendix 2

Atomic Coordinates for Human ERα Complexed with DES, and a GRIP1 NR-box 2 Peptide

ORIGK1	CRYST1	54.0	94 82	.217	58.	041	90.00	1	11.33	90	0,00	P 21	2
ORIGNZ 0.000000 0.000000 0.000000 0.000000 0.000000	ORTGXI	1.0	00000	0.000	0000	0.	000000	0	. 0000	0			
SCALE3													
SCALEI 0.018465 0.000000 0.007221 0.00000 0.00000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.0000000 0.0000000 0.00000000			-										
SCALE2 0.000000 0.012163 0.000000 0.018497 0.000000 0.000000 0.0000000 0.0000000 0.000000													
ATOM 1 CB SER A 305 35.230 -14.787 -1.163 1.00 73.26 ATOM 2 C SER A 305 35.331 -14.303 1.289 1.00 73.26 ATOM 3 O SER A 305 35.331 -14.303 1.289 1.00 73.95 ATOM 4 N SER A 305 36.797 -16.033 0.285 1.00 72.46 ATOM 5 CA SER A 305 36.797 -16.033 0.285 1.00 72.46 ATOM 5 CA SER A 305 36.797 -16.033 0.285 1.00 73.59 ATOM 6 N LEU A 306 35.992 -14.313 2.449 1.00 72.21 ATOM 7 CA LEU A 306 35.992 -14.313 2.449 1.00 72.21 ATOM 7 CA LEU A 306 35.329 -13.950 3.702 1.00 71.05 ATOM 9 C LEU A 306 36.251 -14.256 4.878 1.00 70.19 ATOM 9 C LEU A 306 36.251 -14.256 4.878 1.00 70.19 ATOM 10 O LEU A 306 35.982 -12.478 3.719 1.00 69.57 ATOM 11 N ALA A 307 33.851 -12.176 4.434 1.00 68.06 ATOM 12 CA ALA A 307 33.851 -12.176 4.434 1.00 68.06 ATOM 13 CB ALA A 307 33.851 -12.176 4.434 1.00 68.06 ATOM 13 CB ALA A 307 33.851 -12.176 4.434 1.00 68.08 ATOM 14 C ALA A 307 33.879 -10.804 5.444 1.00 68.36 ATOM 15 O ALA A 307 33.879 -10.804 5.446 1.00 76.18 ATOM 15 O ALA A 307 33.879 -10.804 5.446 1.00 65.86 ATOM 17 CA LEU A 308 34.044 -10.059 8.456 1.00 62.57 ATOM 16 N LEU A 308 34.497 -10.598 8.156 1.00 62.57 ATOM 17 CA LEU A 308 34.497 -10.598 8.156 1.00 62.57 ATOM 19 CG LEU A 308 34.497 -10.598 8.156 1.00 62.57 ATOM 19 CG LEU A 308 34.497 -10.598 8.156 1.00 62.57 ATOM 19 CG LEU A 308 34.497 -10.598 8.156 1.00 62.57 ATOM 19 CG LEU A 308 34.497 -10.598 8.156 1.00 62.57 ATOM 20 CD LEU A 308 33.191 -11.898 8.989 1.00 66.25 ATOM 20 CD LEU A 308 33.191 -11.898 8.989 1.00 65.80 ATOM 22 C LEU A 308 33.191 -11.898 8.989 1.00 65.80 ATOM 22 C LEU A 308 33.191 -11.898 8.989 1.00 65.50 ATOM 22 C LEU A 308 33.191 -11.898 8.989 1.00 65.50 ATOM 22 C LEU A 308 33.191 -11.898 8.989 1.00 65.50 ATOM 22 C LEU A 308 33.191 -11.898 8.989 1.00 65.50 ATOM 22 C LEU A 308 35.953 -10.037 8.100 1.00 66.28 ATOM 22 C LEU A 308 35.953 -10.037 8.100 1.00 65.80 ATOM 22 C LEU A 308 35.953 -10.037 8.100 1.00 65.80 ATOM 22 C LEU A 308 35.953 -10.037 8.100 1.00 65.50 ATOM 22 C LEU A 308 35.953 -10.037 8.100 1.00 65.50 ATOM 22 C LEU A 308 35.953 -10.037 8.100 1.00 65.50 ATOM 23 C LE													
ATOM 2 C SER A 305 35.331 -14.303 1.289 1.00 72.95 ATOM 3 O SER A 305 36.136 -14.308 1.289 1.00 72.46 ATOM 4 N SER A 305 36.797 -16.033 0.285 1.00 74.06 ATOM 5 CA SER A 305 36.138 -14.713 0.661 1.00 73.59 ATOM 6 N LEU A 306 35.982 -14.313 2.449 1.00 72.21 ATOM 7 CA LEU A 306 35.982 -14.313 2.449 1.00 72.21 ATOM 8 CB LEU A 306 35.982 -14.313 2.449 1.00 70.19 ATOM 9 C LEU A 306 36.251 -14.256 4.878 1.00 70.19 ATOM 10 O LEU A 306 36.251 -14.256 4.878 1.00 70.19 ATOM 11 N ALA A 307 33.851 -12.176 4.434 1.00 68.06 ATOM 12 CA ALA A 307 33.851 -12.176 4.434 1.00 68.06 ATOM 13 CB ALA A 307 33.858 -10.810 4.541 1.00 64.88 ATOM 14 C ALA A 307 33.358 -10.810 4.541 1.00 65.83 ATOM 15 O ALA A 307 33.878 -8.984 6.005 1.00 62.73 ATOM 16 N LEU A 308 34.487 -10.598 8.156 1.00 62.57 ATOM 17 CA LEU A 308 34.487 -10.598 8.156 1.00 62.57 ATOM 18 CB LEU A 308 34.487 -10.598 8.156 1.00 62.52 ATOM 19 CG LEU A 308 34.487 -10.598 8.156 1.00 62.52 ATOM 19 CG LEU A 308 34.487 -10.598 8.156 1.00 62.81 ATOM 20 CD1 LEU A 308 33.188 -13.131 1.00 64.28 ATOM 21 CD2 LEU A 308 33.188 -13.131 1.00 66.28 ATOM 22 C LEU A 308 33.188 -13.131 1.00 66.28 ATOM 22 C LEU A 308 33.188 -13.131 1.00 66.28 ATOM 22 C LEU A 308 33.188 -13.513 10.406 1.00 66.28 ATOM 23 O LEU A 308 33.188 -13.513 10.406 1.00 66.28 ATOM 24 N SER A 309 36.561 -10.219 6.959 1.00 63.90 ATOM 25 CA SER A 309 36.561 -10.219 6.959 1.00 65.50 ATOM 26 CB SER A 309 38.889 -10.038 5.352 1.00 58.73 ATOM 27 OG SER A 309 38.889 -10.28 5.953 1.00 57.05 ATOM 30 N LEU A 310 36.940 -8.038 5.352 1.00 58.73 ATOM 30 CB LEU A 310 36.940 -8.038 5.352 1.00 58.73 ATOM 31 CA LEU A 310 36.941 -6.755 5.669 1.00 44.94 ATOM 32 CB LEU A 310 36.950 -7.667 6.291 1.00 44.94 ATOM 32 CB LEU A 310 36.950 -7.667 6.291 1.00 44.94 ATOM 32 CB LEU A 310 36.950 -7.687 6.291 1.00 46.42 ATOM 34 CB LEU A 310 36.970 -1.936 4.904 1.00 44.96 ATOM 35 CD2 LEU A 310 36.971 -6.755 5.609 1.00 44.94 ATOM 36 C LEU A 310 36.971 -6.755 5.609 1.00 44.94 ATOM 37 O LEU A 310 36.971 -6.755 5.609 1.00 44.94 ATOM 38 N THR A 311 39.079 -1.936 4.													
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ATOM	45	N	ALA	A	312	36.726	-1.372	6.409	1.00	42.16
MOTA	46	ÇA	ALA	A	312	35,616	-0.444	6.228	1.00	40,10
atom	47	CB	ALA	Ą	312	35,741	0.709	7.205	1.00	40.07
ATOM	48	C	ALA	A	312	35.561	0.090	4,799	1,00	41.80
ATOM	49	Q	ALA	A	312	34.510	0.074	4.154	1,00	37.81
ATOM	50	N	ASP	Α	313	36.698	0.564	4.304	1.00	42.35
ATOM	51	CA	ASP	A	313	36.752	1.104	2.953	1.00	42.27
ATOM	52	CB	asp	A	313	38.133	1.703	2.680	1.00	43.74
ATOM	53	CG	ASP	A	313	38.323	3.054	3.348	1.00	46.62
MOTA	54	OD1	ASP	A	313	39.414	3.64\$	3.205	1.00	51.01
ATOM	55	OD2	ASP	A	313	37.380	3.529	4.015	1.00	48,89
ATOM	56	C	ASP	A	313	36.422	0.027	1.926	1.00	38.68
ATOM	57	0	ASP	A	313	35.704	0.281	0.959	1.00	38.75
ATOM	58	N	GLN	A	314	36.931	-1.179	2.145	1.00	34.76
ATOM	59 .	CA	GLN	A	314	36.666	-2.277	1.229	1.00	33.55
ATOM	60	CB	GLN	A	314	37.462	-3.512	1.643	1.00	36.90
ATOM	61 .	CG	GLN	Α	314	38.963	-3.384	1.436	1.00	40.45
ATOM	62	CD	GLN	A	314	39.700	-4.610	1.905	1.00	43,13
ATOM	63	OE1	GLN	A	314	39.394	-5.196	2.935	1.00	43.60
MOTA	64	NE3	GLN	A	314	40.701	-5.032	1.117	1,00	44.03
	65	C	GLN	A	314	35.176	-2.595	1.201	1.00	34.95
ATOM	66	Ö	GLN	A	314	34.605	-2.860	0.140	1.00	32.89
ATOM	67	N	MET	A	315	34.542	-2.564	2.374	1.00	32.54
ATOM	68	CA	MET	A	315	33.115	-2.848	2,470	1.00	35.46
MOTA	69	CB	MET	A	315	32.650	-2.794	3.926	1,00	37.09
ATOM	70	CG	MET	A	315	31.137	-2.777	4.097	1.00	39.42
ATOM	71	SD	MET	A	315	30.443	-4.426	4.053	1.00	46.55
ATOM	72	CE	MET	A	315	31.351	-5.205	5.397	1.00	45.29
ATOM	73	C	MET	A	315	32.311	-1.859	1.640	1.00	31.83
ATOM	74	Õ	MET	A	315	31.453	-2.247	0.852	1.00	32.10
ATOM	75	N	VAL	A	316	32.587	-0.560	1.830	1,00	32.62
ATOM	76	CA	VAL	A	316	31.882	0.470	1.079	1.00	31,09
ATOM	77	CB	VAL	A	316	32.395	1.888	1.425	1.00	34.77
MOTA	78	CG1	VAL	A	316	31.786	2.899	0.461	1.00	34.10
ATOM	79	CG2	VAL	A	316	32.021	2.246	2.862	1.00	34.40
ATOM	80	C	VAL	A	316	32.092	0.232		1.00	33.48
ATOM	81	0	VAL	A	316	31.145	0.266		1.00	32.49
ATOM	82	Ŋ	SER	A	317	33.337	-0.027		1.00	33.49
ATOM	83	CA	SER	A	317	33.682	-0.280		1.00	32.88
ATOM	84	CB	SER	A	317	35.165	-0.635		1.00	35.77
ATOM	85	OG	SER	A	317	35.825	0.277		1.00	42.70
ATOM	86	C	SER	A	317	32,849	-1.396		1.00	30.71
ATOM	87	Ö	SER	A	317	32.279	-1.238		1.00	31.14
ATOM	88	N	ALA	A	318	32.792	-2.529		1.00	29.51
ATOM	89	CA	ALA	A	318	32.035	-3.676		1.00	29.93
ATOM	90	CB	ALA	A	318	32.156	-4.811		1.00	28.56
ATOM	91	C	ALA	A	318	30,565	-3.305		1.00	31.55
ATOM	92	0	ALA	A	318	29.961	-3.642		1.00	30.64
ATOM	93	N	LEU	A	319	29.997	-2.614		1.00	34.13
ATOM	94	CA	LEU	A	319	28.597	-2.212		1.00	32.93
ATOM	95	CB	LEU	A	319	28.170	-1.576		1.00	31.15
ATOM	96	CG	LEU	A	319	28.170	-2.555	0.632	1.00	32.27
ATOM	9 0 97	CD1	LEU							
ATOM	98	CD2	LEU	A	319	27.523	-1.840	1.852	1.00	32.14
		CDZ	LEU	A .	319	27.194	-3.733	0.243	1.00	31.82
ATOM .	99			A	319	28.340	-1.257		1.00	34.41
ATOM	100	N O	LEU	A	319	27.430	-1.475		1.00	35.23
ATOM	101	N	LEU	A	320	29.140	-0.195		1.00	32.53
ATOM	102	CA	LEU	A	320	28.972	0.756	-4.ZIZ	1.00	35.33

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ATOM	103	CB	LEU	A	320	30.052	1.839 -4.155	1.00	33.52
MOTA MOTA	104 105	CG CD1	Leu Leu	A n·	320 320	29.974	2.899 -3.054	1.00	34.60
MOTA	105	CD2	LEU	A A	320	31.060 28.611	3.940 -3.292 3.562 -3.044	1.00	33.69
MOTA	107	C C	LEU	A	320	29.052	0.040 -5.561	1.00	31.05 35.41
ATOM	108	Õ	LEU	A	320	28.230	0.271 -6.446	1.00	39.16
ATOM	109	N	AASP	A	321	30.042	-0.833 -5.720	0.50	36.33
ATOM	110	N	BASP	A	321	30.041	-0.839 -5.695	0.50	35.76
ATOM	111	CA	AASP	A	321	30.214	-1.559 -6.977	0.50	37.71
ATOM	112	CA	BASP	A	321	30.258	-1.595 -6.925	0.50	37.11
ATOM	113	CB	AASP	A	321	31,537	-2.334 -6.973	0.50	40.01
ATOM	114	CB	BAŞP	A	321	31.573	-2.374 -6.826	0,50	39.41
MOTA	115	CG	AASP	A	321	31.694	-3.230 -8.195	0.50	41.93
ATOM	116	CG	BASP	A	321	32.770	-1.562 -7.284	0.50	39.96
MOTA	117	OD1	AASP	A	321	31.523	-2.733 -9.329	0.50	42.11
ATOM	118	ODi	BASP	A	321	33.312	-1.868 -8.366	0.50	43.41
ATOM	119	OD2	AASP	A	321	31.988	-4.432 -8.022	0.50	42,69
MOTA	120	OD2	BASP	A	321	33.170	-0.622 -6.564	0.50	41.33
MOTA	121	C	AASP	A	321	29.069	-2.524 -7.275	0.50	37.19
ATOM	122	С	BASP	A	321	29.123	-2.565 -7.253	0.50	36.68
ATOM	123	0	AASP	A	321	28.820	-2.861 -8.434	0.50	36.87
ATOM	124	0	BASP	A	321	28.934	-2.942 -8.411	0.50	36.08
MOTA	125	N	ALA	A	322	28.374	-2.968 -6.235	1.00	35.35
ATOM	126	CA	ALA	A	322	27.268		1.00	31.59
ATOM	127	CB	ALA	A	322	27.124	-4.781 -5.175	1.00	30.73
ATOM ATOM	128 129	С О	ALA ALA	A	322	25.946	-3.204 -6.709	1.00	30.07
ATOM	130	N	GLU	A A	322 323	24.955 25.932	-3.857 -7.036	1.00	26.53
ATOM	131	CA	GLU	A	323	24.713	-1.880 -6.596 -1.117 -6.827	1.00 1.00	27.98 29.88
MOTA	132	CB	GLU	A	323	25.027	0.380 -6.855	1.00	30.98
ATOM	133	ÇG	GLU	A	323	24.870	1.068 -5.509	1,00	31.62
ATOM	134	CD	GLU	A	323	23.463	0.940 -4.960	1.00	31.98
ATOM	135	OE1	GLU	A	323	23.183	-0.056 -4.257	1.00	33.10
ATOM	136	OE2	GLU	A	323	22.640	1.836 -5.233	1.00	30.01
ATOM	137	С	GLU	A	323	24.010	-1.515 -8.123	1.00	30.86
ATOM	138	0	GLU	A	323	24,655	-1.705 -9.151	1.00	28.86
ATOM	139	N	PRO	Α	324	22.674	-1.659 -8.083	1.00	30,66
ATOM	140	CD	PRO	Α	324	21.774	-1.466 -6.935	1.00	31.01
ATOM	141	CA	PRO	A	324	21.935	-2.032 -9.290	1.00	30.29
MOTA	142	CB	PRO	A	324	20.613	-2.598 -8.760	1.00	31.42
ATOM	143	CG	PRO	A	324	20.626	-2.363 -7.258	1.00	33.66
ATOM	144	C	PRO	A	324	21.717	-0.785-10.138	1.00	27.46
ATOM	145	0	PRO	A	324	21.893	0.332 -9.668	1.00	26.19
ATOM	146	N	PRO	A	325	21,335	-0.959-11.403	1.00	27.80
MOTA	147	CD	PRO	A	325	21.082	-2.198-12.161	1.00	27.35
ATOM ATOM	148 149	CA	PRO PRO	A	325	21.125	0.242-12,211	1.00	25.59
ATOM	150	CB CG	PRO	A A	325 325	21.258 20.773	-0.266-13.637	1.00	24.02
ATOM	151	C	PRO	A	325	19.749	-1.695-13.559 0.830-11.954	1.00	26.00 23.73
ATOM	152	0	PRO	A	325	18.873	0.165-11.402	1.00	24.83
ATOM	153	N	ILE	A	326	19.571	2.081-12.352	1.00	22.11
ATOM	154	CA	ILE	A	326	18.296	2.762-12.212	1.00	24.01
ATOM	155	CB	ILE	A	326	18.502	4.282-12.133	1.00	25.97
ATOM	156	CG2	ILE	A	326	17,168	4.992-12.286	1.00	20.75
ATOM	157	CG1	ILE	A	326	19.189	4.632-10.805	1.00	29.31
ATOM	158	CD1	ILE	A	326	19.301	6.120-10.525	1.00	32.91
ATOM	159	C	ILE	A	326	17.506	2.408-13.471	1.00	25.72
ATOM	160	Ο,	ILE	A	326	17.906	2.758-14.581	1.00	25.55

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ATOM.	161	N	LEU	A	327	16.392	1.703-13.301			•
ATOM	162	CA	LEU	A		15.595	1.279-14.439			
ATOM	163	CB	LEU	A	327	14.872	-0.029-14.104	1.00		
ATOM	164	CG	LEU	A	327	15.778	-1.210-13.728	1.00	19.89	
MOTA	165	CD1	LEU	A	327	14.944	-2.462-13.583	1.00	21.19	
ATOM	166	CD2	LEU	A	327	16.850	-1.415-14.805	1.00	17.53	
MOTA	167	C	LEU	A	327	14.598	2.317-14.935	1.00	27.16	
MOTA	168	0	LEU	A	327	14.161	3.202-14.194	1.00	25,98	
ATOM	169	N	TYR	A	328	14.251	2.207-16.210	1.00	26.56	
ATOM	170	CA	TYR	A	328	13.303	3.123-16.014	1.00	24.45	
ATOM	171	CB	TYR	A	328	13.724	3.465-18.245	1.00	26.72	
ATOM	172	CG	TYR	A	328	14.587	4.693-18.314	1.00	27.73	
MOTA	173	CD1	TYR	A	328	14.021	5.949-18.518	1.00	28.56	
ATOM	174	CE1	TYR	A	328	14.798	7.092-18.509	1.00	29.10	
MOTA	175	CD2	TYR	A	328	15.962	4.612-18.110	1.00	26.01	
ATOM	176	CE2	TYR	A	328	16.750	5.753-18.098	1.00	30.63	
MOTA	177	CZ	TYR	A	328	16.157	6.988-18.297	1.00	30.07	
ATOM	178	OH	TYR	A	328	16.917	8,130-18.265	1.00	37.94	
ATOM	179	C	TYR	Α	328	11.923	2.501-16.827	1.00	24.95	
ATOM	180	0	TYR	A	328	11.774	1.274-16.846	1.00	27.02	
ATOM	181	N	SER	A	329	10.912	3.358-16.800	1.00	25.60	
ATOM	182	CA	SER	A	329	9.533	2.908-16.837	1.00	29.45	
ATOM	183	CB	SER	A	329	8.661	3.858-16.020	1.00	30.80	
ATOM	184	OG C	SER	A	329	7.297	3.721-16.364	1.00	33.74	
ATOM	185	C	SER	A	329	9.129	2.947-18.313	1.00	31.30	
ATOM	186	0	SER	A	329	9.908	3.397-19.154	1.00	27.35	
ATOM ATOM.	187 188	N CA	GLU GLU	A	330 330	7.930	2.469-18.629	1.00	32.98	
ATOM.	189	CB	GLU	A.	330	7.459	2.482-20.007	1.00	35.10	
ATOM	190	C	GLU	A A	330	6.031 7.532	1.968-20.074 3.924-20.505	1.00 1.00	34.67	
ATOM	191	0 1	GLU	A	330	7.068	4.841-19.826	1.00	40.06 42.65	
ATOM	192	N	TYR	A	331	8.124	4.126-21.681	1.00	41.16	
ATOM	193	CA	TYR	A	331	8.263	5.470-22.234	1.00	42.66	
ATOM	194	CB	TYR	A	331	9.323	5.482-23.350	1.00	42.54	
ATOM	195	CG	TYR	A	331	9.202	4.347-24.345	1.00	38.67	
ATOM	196	CD1	TYR	A	331	10.105	3.284-24.334		34.66	
ATOM	197	CE1	TYR	A	331	9.985	2.228-25.233	1.00	34.89	
ATOM	198	CD2	TYR	A	331	8.174	4.327-25.287	1.00	37.88	
ATOM	199	CE2	TYR	A	331	8.045	3.276-26.193	1.00	34.65	
ATOM	200	CZ	TYR	A	331	8.950	2.232-26.159	1.00	30.73	
ATOM	201	OH	TYR	A	331	8.814	1.191-27.042	1.00	30.97	
ATOM	202	С	TYR	Α	331	6.943	6.043-22.754	1.00	46.24	
ATOM	203	0	TYR	A	331	6.018	5.301-23.096	1.00	45.38	
ATOM	204	N	ASP	A	332	6.868	7.372-22.792	1.00	49.11	
ATOM	205	CA	ASP	A	332	5.684	8.092-23.262	1.00	52.40	
ATOM	206	CB	ASP	A	332	5.781	8.321-24.772	1.00	52.86	
ATOM	207	c	ASP	A	332	4.356	7.410-22.926	1.00	52.90	
ATOM	208	0	ASP	A	332	3.561	7.116-23.818	1.00	53.94	
ATOM	209	N	PRO	A	333	4.103	7.144-21.632	1.00	53.63	
ATOM	210	CD	PRO	A	333	4.962	7.418-20.465	1.00	53.63	
ATOM	211	CA	PRO	A	333	2.840	6.497-21.253	1.00	53.55	
ATOM	212	CB	PRO	A	333	3.070	6.076-19.802	1.00	53.78	
ATOM	213	CG	PRO	A	333	4.101	7.028-19,290	1.00	53.42	
ATOM	214	C	PRO	A	333	1.673	7.478-21.398	1.00	52.17	
ATOM	215	o o	PRO	Α	333	1.879	8.690-21.395	1.00	51.19	
ATOM	216	N	THR	A	334	0.457	6.956-21.532	1.00	52.26	
ATOM	217	CA	THR	A	334	-0.724	7.802-21.687	1.00	54.21	
ATOM	218	CB	THR	Α	334	-1.997	6.949-21.813	1.00	53.90	

MOTA	219	OG1	THR	A	334	-1.971	6.256-23.065	1.00	53.92
MOTA	220	CG2	THR	A	334	-3.237	7,821-21,761	1.00	54.15
MOTA	221	С	THR	A	334	-0.864	8.782-20.525	1.00	56.34
MOTA	222	0	THR	A	334	-1,389	8.443-19.461	1.00	56.44
MOTA	223	N	ARG	A	335	-0.386	10.002-20.766	1.00	58.24
ATOM	224	CA	ARĢ	A	335	-0.377	11.099-19.801	1.00	57,96
ATOM	225	CB	ARG	A	335	-0.569	12.427-20.531	1.00	60.22
MOTA	226	C	ARG	A	335	-1.349	10.996-18.627	1.00	56.61
ATOM	227	0	ARG	A	335	-0.919	10.908-17.475	1.00	60.70
MOTA	228	N	PRO	A	336	-2.667	11.015-18.889	1.00	52.43
ATOM	229	CD	PRO	Α	336	-3.389	11.117-20.165	1.00	49.06
ATOM	230	CA	PRO	Α	336	-3.587	10.915-17.752	1.00	49.58
ATOM	231	CB	PRO	Α	336	-4.911	11.456-18.302	1.00	48.66
MOTA	232	CG	PRO	A	336	-4.645	11.809-19.760	1.00	
ATOM	233	C	PRO	Α	336	-3.698	9.468-17.279	1.00	49.25
ATOM	234	0	PRO	Α	336	-4.340	8.644-17.929	1.00	48.06
ATOM	235	N	PHE	Α	337	-3.063	9.170-16.147	1.00	47.90
ATOM	236	CA	PHE	Α	337	-3.055	7.821-15.582	1.00	46,61
ATOM	237	CB	PHE	A	337	-2.063	7.732-14.421	1.00	47.73
ATOM	238	CG	PHE	Α	337	-0.649	8.011-14.805	1.00	46.27
ATOM	239	CD1	PHE	A	337	-0.017	9.168-14.368	1.00	46.55
ATOM	240	CD2	PHE	A	337	0,061	7.113-15.591	1.00	48.12
ATOM	241	CE1	PHE	Α	337	1.305	9.429-14.707	1.00	48.09
ATOM	242	CE2	PHE	A	337	1.386	7.364-15.938	1.00	47.57
ATOM	243	CZ	PHE	Α	337	2.009	8.525-15.495	1.00	48.40
ATOM	244	C	PHE	A	337	-4.401	7.338-15,071	1.00	46.15
ATOM	245	0	PHE	Α	337	-5.250	8.127-14.671	1.00	48.34
ATOM	246	N	SER	Α	338	-4.573	6.022-15.080	1.00	45.06
MOTA	247	CA	SER	Α	338	-5.781	5.385-14.578	1.00	45.12
MOTA	248	CB	SER	Α	338	-6.477	4.594-15.684	1.00	44,49
ATOM	249	OG	SER	Α	338	-6.227	3.206-15.554	1.00	45.78
ATOM	250	C	SER	Α	338	-5.292	4.439-13.488	1.00	47.04
MOTA	251	O	SER	Α	338	-4.090	4.186-13.387	1.00	44.08
MOTA	252	N	GLU	Α	339	-6.206	3.916-12.676	1.00	45.63
ATOM	253	CA	GLU	Α	339	-5.802	3.012-11.608	1.00	45.40
MOTA	254	CB	GLU	Α	339	-7.015	2.521-10.814	1.00	45.66
MOTA	255	CG	GLU	Α	339	-6.637	1.680 -9.600	1.00	46.81
MOTA	256	CD	GLU	Α	339	-7.717	1.652 -8.535	1.00	47.56
ATOM	257	OE1	GLU	A	339	-8.471	0.656 -8.477	1.00	47.37
MOTA	258	OE2	GLU	Α	339	-7.810	2.625 -7.754	1.00	49.29
MOTA	259	C	GLU	Α	339	-5.040	1.821-12.170	1.00	45.23
MOTA	260	0	GLU	Α	339	-3.862	1.641-11.872	1.00	46.51
ATOM	261	N	ALA	A	340	-5.712	1.010-12.982	1.00	42.87
MOTA	262	CA	ALA	A	340	-5.078	-0.158-13.574	1.00	40.24
MOTA	263	CB	ALA	Α	340	-6.055	-0.871-14.496	1.00	41.40
ATOM	264	C	ALA	A	340	-3.837	0.273-14.350	1.00	38.83
MOTA	265	0	ALA	A	340	-2.909	-0.515-14.543	1.00	35.58
MOTA	266	N	SER	A	341	-3.836	1.535-14.773	1.00	35.79
ATOM	267	CA	SER	Α	341	-2,742	2.133-15.537	1.00	.36.58
MOTA	268	CB	SER	A	341	-3.231	3.454-16.154	1,00	39.01
MOTA	269	OG	SER	A	341	-2.211	4.130-16.864	1.00	36.09
MOTA	270	C	SER	A	341	-1.480	2.376-14.691	1.00	35.63
MOTA	271	0	SER	Α	341	-0.389	1.913-15.038	1.00	33.20
MOTA	272	N	MET	A	342	-1.626	3.115-13.595	1.00	35.92
MOTA	273	CA	MET	A	342	-0.498	3.396-12.708	1.00	35.88
MOTA	274	CB	MET	Α	342	-0.912	4.396-11.623	1.00	35.96
ATOM	275	CG	MET	A	342	0.241	5.218-11.059	1.00	38.02
ATOM	276	SD	MET	A	342	-0.308	6.374 -9.780	1.00	44.73

ATOM	277	CE	MET	A	342	0.626	7.815-10.205	1.00	42.49	
MOTA	278	e	MET	A	342	-0.011	2.100-12.059	1.00	34.17	•
ATOM	279	ō.	MET	A	342	1.195	1.880-11.909	1,00	33.40	
TOM	280	N	MET	A	343	-0.957	1.243-11.687	1.00	29.95	
TOM	281	CA	MET	A	343	-0.640	-0.034-11.062	1.00	31.96	
TOM	282	CB	MET	Α	343	-1.921	-0.810-10.751	1.00	31.70	
TOM	283	CG	MET	A	343	-2.667	-0.337 -9.502	1.00	37,13	
MOT	284	SD	MET	A	343	-1.749	-0.507 -7.940	1.00	36.00	
MOT	285	CE	MET	A	343	-1.468	-2.299 -7.886	1.00	32.14	
TOM	286	С	MET	A	343	0.234	-0.875-11.979	1.00	31,72	
TOM	287	0	MET	A	343	1.159	-1.558-11.527	1.00	30.26	
TOM	288	N	GĻY	A	344	-0.069	-0.823-13.272	1,00	29.04	
Tom	289	CA	GLY	A	344	0.688	-1.591-14.242	1.00	24.94	
TOM	290	С	GLY	A	344	2.104	-1.085-14.396	1.00	26.01	
TOM	291	0	GLY	A	344	3.046	-1.873-14.463	1.00	28.72	
TOM	292	N	LEU	A	345	2.257	0.232-14.471	1.00	26.97	
TOM	293	CA	LEU	A	345	3,576	0.839-14.608	1.00	31.15	
TOM TOM	294 205	CB CG	LEU	A	345	3.459	2.361-14.753	1.00	30.06	
TOM	295 296	CD1	LEU LEU	A A	345 345	2.765 2.901	2.924-15.995 4.439-15.999	1.00	33.50 33.52	
TOM	297	CD2	LEU	A	345	3.379	2.324-17.257	1.00	33.32	
TOM	298	C	LEU	A	345	4.433	0.534-13.383	1.00	30.31	
TOM	299	Õ	LEU	A	345	5.564		1.00	32.80	
TOM	300	N	LEU	Α	346	3,884	0.813-12.205	1,00	27.83	
TOM	301	CA	LEU	A	346	4.595	0.596-10.947	1.00	26.19	
TOM	302	CB	LEU	A	346	3.729	1.063 -9.783	1.00	24.51	
TOM	303	CG	LEU	A	346	3.483	2.569 -9.682	1.00	26.33	
TOM	304	CD1	LEU	A	346	2.623	2.844 -8.463	1.00	27.33	
rom	305	CD2	LEU	Α	346	4.809	3.317 -9.587	1.00	24.89	
TOM	306	C	LEU	A	346	5.032	-0.848-10.707	1.00	25.72	
TOM	307	0	LEU	A	346	6.181	-1.102-10.345	1.00	29.86	
TOM	308	N	THR	A	347	4.117	-1.793-10.891	1.00	23.80	
TOM	309	CA	THR	A	347	4.436	-3.196-10.674	1.00	23.91	
TOM	310	CB	THR	A	347	3.164	-4.058-10.641	1.00	26.39	
TOM TOM	311	OG1 CG2	THR	A	347	2.421	-3.860-11.849	1.00	24.57	
TOM	312 313	C	THR THR	A A	347 347	2.301 5.366	-3.682 -9.444 -3.734-11.756	1.00	23.98	
rom -	314	0	THR	A	347	6.176	-4.622-11.496	1,00 1.00	26.17 27.44	
FOM	315	N	ASN	A	348	5.242	-3.197-12,970	1,00	25.48	
rom	316	CA	ASN	A	348	6.092	-3.617-14,082	1.00	23.77	
rom	317	CB	ASN	A	348	5,657	-2.926-15.385	1.00	24.59	
rom	318	CG	ASN	A	348	6.522	-3.302-16.571	1.00	29.93	
MOT	319	OD1	ASN	A	348	7.616	-2.799-16.771	1.00	24.81	
MO1	320	ND2	ASN	A	348	6.010	-4.236-17.391	1.00	32.61	
MOT	321	С	ASN	Α	348	7.532	-3.229-13.741	1.00	22.82	
MOT	322	0	ASN	A	348	8.453	-4.027-13.870	1.00	18,83	
MOT	323	N	LEU	Α	349	7.711	-1.993-13.288	1,00	22.58	
MOT	324	CA	LEU	Α	349	9.030	-1.507-12.914	1.00	21.85	
MO	325	CB	LEU	A	349	8.929	-0.028-12.536	1.00	22.00	
MOT	326	CG	LEU	A	349	10.155	0.673-11.953	1.00	23.64	
MO	327	CD1	LEU	A	349	11.224	0.826-13.017	1.00	19.35	
MO	328	CD2	LEU	A	349	9.726	2.040-11.415	1.00	21.97	
MO	329	C	LEU	A	349	9.564	-2.335-11.734	1.00	22.94	
MOT	330	0	LEU	A	349	10.724	-2,749-11.717	1.00	23.97	
MOT	331	N	ALA	A	350	8.705		1.00	21.67	
MOT	332	CA	ALA	A	350	9.113	-3.356 -9.586	1.00	21.83	
Tom Tom	333 334	CB C	ALA	A	350 350	7.963	-3.441 -8.593	1.00	18.95	
T OIL	J J 4	U	ALA	\mathbf{A}	350	9.568	-4.757 -9.985	1.00	21.90	

ATOM	335	0	ALA	A	350	10.625	-5.221 -9.554	1.00	24.15
MOTA	336	N	asp	A	351	8.767	-5.423-10.810	1.00	23.24
MOTA	337	CA	ASP	A	351	9.093	-6.772-11.259	1.00	25.87
ATOM	338	CB	ASP	A	351	8.028	-7.274-12.239	1.00	27.03
ATOM	339	CG	ASP	A	351	8.103	-8.772-12.458	1.00	31.64
ATOM	340	OD1	ASP	A	351	8.217	-9.196-13.628	1.00	35.06
MOTA	341	OD2	ASP	A	351	8.049	-9.525-11.464	1.00	36.86
ATOM	342	C	ASP	A	351	10.469	-6.825-11.912	1.00	22.36
ATOM	343	0	ASP	A	351	11.219	-7.773-11.702	1.00	25.15
ATOM	344	N	ARG	A	352	10.810	-5.808-12.697	1.00	23.58
ATOM	345	CA	ARG	A	352	12.115	-5.787-13.347	1.00	21,07
ATOM	346	CB	ARG	A	352	12.120	-4.785-14.507	1.00	21.02
ATOM	347	CG	ARG	A	352	11.539	-5.352-15.797	1.00	20.44
ATOM	348	CD	ARG	A	352	11.554	-4.319-16.915	1.00	20.43
ATOM	349	NE	ARG	A	352	10.592	-3.245-16.687	1.00	19.85
ATOM	350	CZ	ARG	A	352	10.910	-1.954-16.641	1.00	19.69
ATOM	351	NHl	ARG	A	352	12.172	-1,564-16,813	1.00	17.36
ATOM	352	NH2	ARG	A	352	9.962	-1.049-16.441	1.00	21.88
ATOM	353	C	ARG	A	352	13.223	-5.442-12.350	1.00	22.11
ATOM	354	õ	ARG	A	352	14.346	-5.945-12.454	1.00	24.13
ATOM	355	N	GLU	A	353	12.909	-4.587-11.383	1.00	18.66
ATOM	356	CA	GLU	A	353	13.888	-4,206-10,376	1.00	19.08
ATOM	357	CB	GLU	A	353	13.317	-3.102 -9.483	1.00	21.62
ATOM	358	CG	GLU	A	353	13.295	-1.718-10.114	1.00	20.97
ATOM	359	CD	GLU	A	353	12.832	-0.648 -9.129	1.00	23.84
ATOM	360	OE1	GLU	A	353	11.611	-0.531 -8.926	1.00	24.76
ATOM	361	OE2	GLU	A	353	13.686	0.066 -8.557	1.00	24.95
ATOM	362	C	GLU	A	353	14.246	-5.423 -9.512	1.00	20.14
ATOM	363	0	GLU	A	353	15.398	-5.600 -9.104	1.00	19.40
ATOM	364	N	LEU	A	354	13.246	-6.257 -9.235	1.00	19.54
ATOM	365	CA	LEU	A	354	13.434	-7.452 -8.415	1.00	21.77
ATOM	366	CB	LEU	A	354	12.107	-8.209 -8.270	1.00	23.09
MOTA	367	CG	LEU	A	354	11.160	-7.606 -7.223	1.00	25.00
ATOM	368	CD1	LEU	A	354	9.720	-8.013 -7.510	1.00	23.49
MOTA	369	CD2	ĻEU	A	354	11.584	-8.069 -5.839	1.00	23.31
ATOM	370	C	LEU	A	354	14.500	-8.386 -8.981	1.00	23.21
MOTA	371	0	LEU	A	354	15.255	-9.007 -8.234	1.00	22.44
ATOM	372	N	VAL	A	355	14.560	-8.490-10.302	1.00	22.52
ATOM	373	CA	VAL	A	355	15.551	-9.343-10.935	1.00	21.66
MOTA	374	ÇB	VAL	A	355	15.353	-9.365-12.466	1.00	24.35
ATOM	375	CG1	VAL	A	355	16.435	-10.214-13.119	1.00	28.16
MOTA	376	CG2	VAL	A	355	13.957	-9.886-12.798	1.00	21.59
ATOM	377	C G Z	VAL	A	355	16.944	-8.811-10.606	1.00	23.74
ATOM	378	0	VAL	A	355	17.857	-9.581-10.291	1.00	23.51
ATOM	379	И	HIS	A	356	17.105	-7.489-10.669	1.00	21.27
					356	18.392	-6.861-10.369	1.00	21.31
ATOM ATOM	380	CA	HIS	A	356		-5.390-10.811	1.00	19.87
	381	CB	HIS	A	356	18.384		1.00	21.77
MOTA	382	CG	HIS	A		18.494	-5.205-12.295		
ATOM	383	CD2	HIS	A	356	17.543	~5.048-13.248	1.00	21.66
ATOM	384	ND1	HIS	A	356	19.704	-5.177-12.955	1.00	21.11
ATOM	385	CE1	HIS	A	356		-5.011-14.249	1.00	24.96
ATOM	386	NE2	HIS	A	356	18.192	-4.931-14.455	1.00	18.37
ATOM	387	C	HIS	A	356	18.702	-6.947 -8.875	1.00	21.41
ATOM	388	0	HIS	A	356	19.864	-7.111 -8.465	1.00	21.88
ATOM	389	N	MET	A	357	17.660	-6.843 -8.058	1.00	21.84
ATOM	390	CA	MET	Α.	357	17.837	-6.906 -6.610	1.00	21.51
ATOM	391	CB	MET	A		16.503	-6.668 -5.898	1.00	17.60
ATOM	392	CG	MET	A	357	16.629	-6.579 -4.369	1.00	19.36

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	atom Atom	393 394	SD CE	MET	A A	357 357	15.051 14.189		1.00 1.00	23.64 - 23.13
	ATOM	395	CE	MET	A	357 357	18.411		1.00	23.13 23.69
	MOTA	396	0	MET	A	357 357	19.337		1.00	24.41
	MOTA	397	N	ILE	A	358	17.856		1.00	27.14
	ATOM	398	CA	ILE	A	358	18.314		1.00	27.14 28.79
	MOTA	399	CB	ILE	A	358	17.529	·	1.00	32.42
	ATOM	400	CG2	ILE	A	358	18.267		1.00	32.42
	ATOM	401	CG1	ILE	A	358	16.125	•	1.00	31.94
	MOŢA	402	CD1	ILE	A	358	15.062	•	1.00	34.85
	ATOM	403	C	ILE	A	358	19.801		1.00	28.75
	ATOM	404	Õ	ire	A	358	20.569		1.00	31.60
	ATOM	405	N	ASN	A	359	20.207		1.00	27.91
	ATOM	406	CA	ASN	A	359		-10.401 -8.293	1.00	29.16
	ATOM	407	CB	ASN	A	359		-10.172 -9.801	1.00	31.88
	ATOM	408	CG	ASN	A	359		-11.381-10.599	1.00	39.34
	ATOM	409	0D1	ASN	A	359		-12.422-10.612	1.00	41.27
	ATOM	410	ND2	ASN	A	359		-11.255-11.253	1.00	38.58
-	ATOM	411	C	ASN	A	359	22.476		1.00	30.75
	ATOM	412	ō	ASN	A	359	23.686	-9.629 -7.412	1.00	33.35
	ATOM	413	Ŋ	TRP	A	360	21.872	-8.400 -6.940	1.00	30.07
	ATOM	414	CA	TRP	A	360	22.634	-7.451 -6.132	1.00	27.87
	ATOM	415	CB	TRP	A	360	21.849	-6.150 -5.948	1.00	24.80
	ATOM	416	CG	TRP	Α	360	22.196	-5.392 -4.691	1.00	23.04
	ATOM	417	CD2	TRP	A	360	21.501	-5.443 -3.438	1.00	19.83
	ATOM	418	CE2	TRP	A	360	22,147	-4.543 -2.564	1.00	22.31
	ATOM	419	CE3	TRP	A	360	20.392	-6.165 -2.972	1.00	20.09
	ATOM	420	CD1	TRP	A	360	23.212	-4.488 -4.529	1.00	18.99
	ATOM	421	NE1	TRP	A	360	23.187	-3.974 -3.255	1.00	21.17
	ATOM	422	CZ2	TRP	A	-360	21.721	-4.340 -1.243	1.00	20.43
	ATOM	423	CZ3	TRP	A	360	19.968	-5.965 -1.661	1.00	20.12
	ATOM	424	CH2	TRP	A	360	20.635	-5.057 -0.812	1.00	18.54
	ATOM	425	C	TRP	A	360	22.892	-8.099 -4.766	1.00	24.88
	ATOM	426	0	TRP	A	360	23.978	-7.980 -4.198	1.00	25.00
	ATOM	427	N	ALA	A	361	21.879	-8.789 -4.252	1.00	24.08
	ATOM	428	CA	ALA	A	361		-9.462 -2.958	1.00	26.06
	ATOM	429	CB	ALA	A	361		-10.203 -2.672	1.00	20.27
	ATOM	430	С	ALA	A	361		-10.433 -2.897	1.00	28.44
	ATOM	431	0	ALA	A	361		-10.531 -1.876	1.00	28.95
	ATOM	432	N	LYS	A	362		-11.144 -3.992	1.00	31.41
	ATOM	433	CA	LYS	A	362		-12.097 -4.047	1.00	
	ATOM	434	CB	LYS	A	362		-12.824 -5.390	1.00	34.81
	MOTA	435	CG	LYS	A	362			1.00	36.27
	MOTA	436	CD	LYS	A	362		-14.178 -7.167	1.00	38.30
	MOTA	437	CE	LYS	A	362		-15.193 -7.472	1.00	40.94
	ATOM	438	NZ	LYS	A	362		-15.322 -8.937	1.00	42.49
	ATOM	439	C	LYS	A	362		-11.351 -3.893	1.00	34.17
	MOTA	440	0	LYS	A	362		-11.977 -3.595	1.00	35.40
	ATOM	441	N	AARG		363		-10.059 -4.095	0.50	34.23
	ATOM	442	N	BARG		363		-10.059 -4.095	0.50	34.03
	ATOM	443	CA	AARG		363	27.035	-9.254 -3.987	0.50	33.25
	ATOM	444	CA	BARG		363	27.035	-9.254 -3.987	0.50	32.83
	ATOM	445	CB	AARG		363	27.031	-8.153 -5.044	0.50	34.67
	ATOM	446	CB	BARG		363	27.031	-8.153 -5.045	0.50	34.20
	ATOM	447	CG	AARG		363	26.933	-8.654 -6.478	0.50	36.32
	ATOM '	448	CG	BARG		363	26.930	-8.654 -6.480	0.50	35.56
	ATOM	449	CD	AARG		363	27.745	-7.775 -7.415	0.50	38.39
	ATOM	450	CD	BARG	A	363	27.752	-7.781 -7,414	0.50	37.18

втом	4.5.3	NTT	AARG	λ.	262	20 171	7 702	7 001	0.50	20.00
MOTA MOTA	451 452	ne Ne	BARG	A A	363 363	29.171 27.195	-	-7.091 -8.762	0.50	39.98
ATOM	453	CZ	AARG	A	363	30.086		-7.692	0.50 0.50	37.39 40.54
ATOM	454	CZ	BARG	A	363	27.905		~9.855	0.50	40.02
ATOM	455	NH1	AARG	A	363	29.735		-8.675	0.50	38.13
ATOM	456	NHI	BARG	A	363	29.205		-9.761	0.50	40.42
ATOM	457	NH2	AARG	A	363	31.358		-7.326	0.50	43.19
ATOM	458	NH2	BARG	Α	363	27.311		-11,041	0.50	38.91
ATOM	459	C	AARG	A	363	27.207		-2.610	0.50	33.28
ATOM	460	Č	BARG	A	363	27.207		-2.610	0.50	32.81
ATOM	461	Ö	AARG	A	363	28.223		-2.344	0.50	34.18
ATOM	462	Ö	BARG	A	363	28.223		-2.345	0.50	33.43
ATOM	463	N	VAL	Α	364	26.215		-1.740	1.00	33.12
ATOM	464	CA	VAL	A	364	26.288		-0.389	1.00	33.63
ATOM	465	CB	VAL	A	364	24.898	-8.178	0,292	1.00	34.97
ATOM	466	CG1	VAL	A	364	25.036	-7.608	1.700	1.00	35.44
ATOM	467	CG2	VAL	A	364	23.946		-0.532	1.00	36.69
ATOM	468	C	VAL	A	364	27.184	-9.157	0.428	1.00	34.27
ATOM	469	0	VAL	Α	364	26.878	-10.341	0.603	1.00	34.95
ATOM	470	N	PŖO	A	365	28.306	-8.626	0.935	1.00	36.08
MOTA	471	CD	PRO	A	365	28.775	-7.235	0.793	1.00	34.84
ATOM	472	CA	PRO	A	365	29.231	-9.442	1.733	1.00	37.82
MOTA	473	CB	PRO	A	365	30.110	-8.408	2,430	1.00	34.31
MOTA	474	CG	PRO	Α	365	30.127	-7.247	1.475	1.00	37.77
MOTA	475	C	PRO	A	365	28.538	-10.373	2.720	1.00	37.61
MOTA	476	0	PRO	A	365	27.692	-9.945	3.507	1.00	37.74
MOTA	477	N	GLY	A	366	28.890	-11.654	2.654	1.00	39.04
ATOM	478	CA	GLY	A	366	28.307	-12.635	3.554	1.00	38.27
MOTA	479	C	GLY	Α	366	26.991	-13.264	3.138	1.00	39.32
ATOM	480	0	GLY	Α	366	26.638	-14.336	3.635	Ĺ1,00	39.53
ATOM	481	N	PHE	Α	367	26.246	-12.615	2.236	1.00	38.60
ATOM	482	CA	PHE	A	367	24.960	-13.148	1,783	1.00	36.36
ATOM	483	CB	PHE	A	367	24.281	-12.178	0.808	1.00	32.10
ATOM	484	CG	PHE	A	367	22.827	-12.473	0.581	1.00	30.12
ATOM	485	CD1	PHE	A	367	22.401	-13.083		1.00	28.95
ATOM ATOM	486 487	CD2 CE1	PHE PHE	A	367 [.] 367	21.882	-12.176 -13.400	1.563	1.00	26.18 29.42
ATOM	488	CE2	PHE	A A	367		-13.400	1.373	1.00	27.60
ATOM	489	CZ	PHE	A	367		-13.103	0.196	1.00	26.81
ATOM	490	C	PHE	A	367		-14.519		1.00	36.82
ATOM	491	ō	PHE	A	367		-15.398		1.00	36.55
ATOM	492	N	VAL	A	368		-14.694		1.00	38.28
ATOM	493	CA	VAL	A	368		-15.965		1.00	42.34
ATOM	494	CB	VAL	A	. 368		-15.850		1.00	41.78
ATOM	495	CG1	VAL	A	368		-14.831		1.00	44.60
ATOM	496	CG2	VAL	A	368		-15.457		1.00	42,23
ATOM	497	С	VAL	A	368		-17.100	0.533	1.00	43.85
MOTA	498	0	VAL	Α	368		-18.274	0.216	1.00	44.85
ATOM	499	N	ASP	A	369		-16.750	1,699	1.00	44.93
MOTA	500	CA	ASP	Α	369		-17.755	2.688	1.00	44.96
ATOM	501	CB	ASP	A	369		-17.106	3.849	1.00	43.76
ATOM	502	CG	ASP	A	369		-16.413	3.404	1.00	43.04
MOTA	503	OD1	ASP	A	369	30.121	-15.570	4.167	1,00	44.32
ATOM	504	OD2	ASP	A	369	30.097	-16.709	2.293	1.00	46.76
MOTA	505	C	ASP	Α	369	26.340	-18,465	3.228	1.00	45.89
ATOM	506	0	ASP	A	369		-19.671		1.00	48.61
ATOM	507	N	LEU	A	370		-17.714		1.00	43.59
ATOM ·	508	CA	LEU	A	370	24.020	-18.279	3.924	1.00	44.24

	MOTA	509	CB	LEU	A	370	22.980	-17.173	4.110	1.00	41.42
	MOTA	510	୯୯	LEU	A	370	23.404	-16.015	5.014	1.00	41.45
	MOTA	511	CD1	LEU	A	370	22.219	-15.095	5.245	1.00	42.25
	ATOM	512	CD2	LEU	A	370	23.931	-16,552	6.332	1.00	38.35
	ATOM	513	C	LEU	A	370	23.449	-19.360		1.00	44.03
	ATOM	514	0	LEU	A	370	23.773	-19.423		1.00	43.63
	ATOM	515	N	THR	A	371		-20.206		1.00	44.29
	MOTA	516	CA	THR	A	371		-21.272		1.00	44.84
	ATOM	517	CB	THR	A	371		-22.302		1.00	45.65
	ATOM	518	OG1	THR	A	371		-21.663		1.00	46.43
	ATOM	519	CG2	THR	A	371		-22.903		1.00	46.48
	ATOM	520	C	THR	A	371		-20.684		1.00	44.93
	ATOM	521	ō	THR	A	371		-19.585		1.00	44.36
	ATOM	522	N	LEU	A	372		-21.418		1.00	43.83
	ATOM	523	CA	LEU	A	372		-20.971		1.00	44.62
	ATOM	524	СВ	LEU	A	372		-22.043		1.00	47.17
	ATOM	525	CG	LEU '	A	372		-21.690		1.00	46.91
	ATOM	526	CD1	LEU	A	372		-20.417		1.00	48.73
	ATOM	527	CD2	LEU	A	372		-22.844		1.00	51.12
	ATOM	528	C	LEU	A	372		-20.644		1.00	44.84
	ATOM	529	0	LEU	A	372		-19.602	0.312	1.00	43.25
	ATOM	530	N	HIS	A	373		-21.558	1.382	1.00	
	ATOM	531	CA	HIS	A	373		-21.353	2.100	1.00	43.14
	ATOM	532	CB	HIS	A	373		-22.525	3.062	1.00	42.23 45.38
	ATOM	533	CG	HIS	A	373		-22.315		1.00	
	ATOM	534	CDS	HIS	A	373		-22.513	3.743	1.00	51,43 54.99
	ATOM	535	ND1	HIS	A	373 373		-21.716	5.174	1.00	54.26
	ATOM	536	CE1	HIS	A	373		-21.716	5.709	1.00	53.77
	ATOM	537	NE2	HIS	A	373		-22.206	4.861	1.00	55.27
	ATOM	538	C	HIS	A	373		-20.047	2.885	1.00	39.78
	ATOM	539	0	HIS	A	373		-19.324	2.971	1.00	37.71
	ATOM	540	N	ASP	A,	374		-19.738	3.440	1.00	36.38
	ATOM	541	CA	ASP	Α	374		-18.516	4.219	1.00	37.21
	ATOM	542	CB	ASP	A	374		-18.620	5.073	1.00	38.17
	ATOM	543	CG	ASP	A	374		-19.425	6.344	1.00	41,47
	ATOM	544	OD1	ASP	A	374		-19.543	6.772	1.00	37.09
	ATOM	545	OD2	ASP	A	374	20.052	-19.940	6.912	1.00	44.40
	ATOM	546	C	ASP	A	374	18.083			1.00	37.19
	ATOM	547	Ö	ASP	A	374		-16.208		1.00	38.13
	ATOM	548	N	GLN	A	375		-17.431		1.00	33.13
	ATOM	549	CA	GLN	A	375		-16.339	1.198	1.00	31.94
	ATOM	550	CB	GLN	A	375		-16.756		1.00	28.81
	ATOM	551	CG	GLN	A	375		-16.570	0.189	1.00	31.71
	ATOM	552	CD	GLN	A	375		-17.222		1.00	34.49
	ATOM	553	OE1	GLN	A	375 375		-17.267		1.00	36.09
	ATOM	554	NE2	GLN	A	375		-17.736		1.00	40.32
	MOTA	555 555	C	GLN	A	375		-16.009	0.730	1.00	31.50
١	ATOM	556	0	GLN	A	375			0.653		27.42
	ATOM	557	N	VAL	A	375 376			0.429	1.00	30.38
	ATOM	558	CA	VAL	A	376		-16.907		1.00	
	ATOM	559	CB	VAL	A	376		-18.286		1.00	33.50 30.57
	ATOM	560	CG1	VAL	A	376 376		-18.122		1.00	
	ATOM	561	CG2	VAL	A A	376 376		-18.122		1.00	33.14 30.79
	ATOM	562	C	VAL	A	376 376					
	ATOM	563	0	VAL		376 376		-16.159	1.002	1.00	33.80
	MOTA	564	N	HIS	A a	377		-15.237			34.89
	ATOM	565	CA	HIS	A A	377		-16.568 -15.941	2.261 3. 32 9	1.00	33.35
	ATOM	566	CB	HIS	A	3 <i>77</i>		-15.941	3.329 4.644	1.00	32.81
	AT ON	200		UT2	~	311	17.200	- TO'074	4.044	1.00	35.24

ATOM	567	CG	HIS	A	377	13.429	-15.989	5.851	1.00	40.15
MOTA	568	CD2	HIS	A	377	14.054	-15.495	6.946	1.00	40.86
MOTA	569	ND1	HIS	A	377	12.090	-15.703	6.012	1.00	43.08
MOTA	570	CE1	HIS	A	377	11.913	-15.062	7.154	1.00	42.44
MOTA	571	NE2	HIS	A	377	13.089	-14.922	7.740	1.00	44,85
ATOM	572	C	HIS	A	377	14.058	-14.454	3.507	1.00	28.63
MOTA	573	0	HIS	A	377	13.158	-13.619	3.613	1.00	29.20
ATOM	574	N	LEU	Α	378	15.343	-14.125	3.544	1.00	24,41
ATOM	575	CA	LEU	A	378	15.759	-12.738	3.721	1.00	23.21
MOTA	576	CB	LEU	A	378	17.289	-12.650	3.743	1.00	20,98
ATOM	577	CG	LEU	Ą	378	17.960	-13.190	5.016	1.00	24.22
ATOM	578	CD1	LEU	A	378	19.471	-13.041	4.924	1.00	21.07
ATOM	579	CD2	LEU	Ą	378	17.431	-12.446	6.221	1.00	20.24
ATOM	580	C	LEU	A	378	15.190	-11.827	2.630	1.00	24.78
ATOM	581	0	LEU	A	378		-10.766	2.922	1.00	22.09
ATOM	582	N	LEU	A	379		-12.242	1.374	1.00	24.13
ATOM	583	CA	LEU	A	379		-11.447	0.262	1.00	25.02
ATOM	584	СВ	LEU	A	379		-12.025		1.00	27.12
ATOM	585	CG	LEU	A	379		-11.600		1.00	24.39
ATOM	586	CD1	LEU	A	379		-12.557		1.00	27.58
ATOM	587	CD2	LEU	A	379		-10.178		1.00	29.05
ATOM	588	C	LEU	A	379	13.287		0.246	1.00	27.61
ATOM	589	Õ	LEU	A	379	12.726	-10.301		1.00	
ATOM	590	N	GLU	A	380	12.616	-12.454	0.576	1.00	25.65
ATOM	591	CA	GLU	Α	380	11.154	-12.471	0.592	1.00	26.85
ATOM	592	CB	GLU	A	380		-13.882	0.871	1.00	29.38
MOTA	593	CG	GLU	A	380	10.718	-14.796		1.00	35.58
ATOM	594	CD	GLU	Ą	380	10.228	-16.194		1.00	39.31
ATOM	595	OE1	CLU	A	380	10.142	-17.008		1.00	42.89
ATOM	596	OE2	GLU	A	380	9.927	-16.478	1.153	1.00	39.45
ATOM	597	c	GLU	A	380	10.604	-11.526	1,649	1,00	25.43
ATOM	598	ō	GLU	A	380	9.551	-10.925	1.469	1.00	27.75
ATOM	599	Ŋ	CYS	A	381		-11.400	2.753	1.00	25.57
ATOM	600	CA	CYS	A	381	10.907	-10.530	3.843	1.00	26.46
ATOM	601	CB	CYS	A	381	11.570	-11.000	5.149	1.00	31.46
MOTA	602	SG	CYS	A	381	11.305	-9.946	6.623	1.00	45.32
ATOM	603	C	CYS	A	381	11.262	-9.059	3.589	1.00	24.77
ATOM	604	ō	CYS	A	381	10.516		3.975	1.00	25.01
ATOM	605	N	ALA	A	382	12.377	-8.815	2.903	1.00	22.23
ATOM	606	CA	ALA	A	382	12.855	-7.449	2.681	1.00	21.83
ATOM	607	CB	ALA	A	382	14.319	-7.383	3.095	1.00	21.56
ATOM	608	C	ALA	A	382	12.705	-6.778	1.311	1.00	19.78
ATOM	609	Ö	ALA	A	382	12.705	-5.587	1.182	1.00	17.01
ATOM	610	N	TRP	A	383	12:261	-7.507	0.294	1.00	17.61
ATOM	611	CA	TRP	A	383	12.164	-6.915		1.00	18.06
ATOM	612	CB	TRP	A	383	11.580	-7.928		1.00	20.28
ATOM	613	CG	TRP	A	383	10.105	-8.201		1.00	20.50
ATOM	614	CD2	TRP	A	383	9.049				
ATOM	615	CE2	TRP	A	383	7.836	-7.509		1.00	22.48
ATOM	616						-8.138		1.00	20.41
ATOM	617	CE3 CD1	TRP TRP	A A	383 383	9.012 9.506	-6.420		1.00	22.06
ATOM								-1,190		23.38
	618	NE1	TRP	A	383	8.142	-9.159		1.00	22.59
ATOM	619	CZ2	TRP	A	383	6.598	-7.713		1.00	21.98
ATOM	620	CZ3	TRP	A	383	7.780	-5,998		1.00	25.50
ATOM	621	CH2	TRP	A	383	6.589	-6.647		1.00	23.11
ATOM	622 623	C	TRP	A	383	11.448	-5.564		1.00	19.18
ATOM	623	O N	TRP	A A	383	11.972	-4.663		1.00	19.27
ATOM	624	14	LEU	A	384	10.273	-5.396	-0.567	1.00	18.32

ATOM	625	CA	LEU	A	384	9.586	-4.118 -0.719	1.00	16.38
MOTA	626	CB	LEU	A	384	8.125	-4.218 -0.258	1.00	16,79
MOŢA	627	CG	LEU	A	384	7.211	-3.013 -0.577	1.00	18.39
ATOM	628	CD1	LEU	Ą	384	7.464	-2.485 -1,995	1.00	13.91
ATOM	629	CD2	LEU	A	384	5.750	-3.432 -0.410	1.00	18.38
ATOM	630	C	LEU	A	384	10.324	-3.027 0.051	1.00	18.80
ATOM	631	0	LEU	A	384	10.334	-1.870 -0.357	1.00	20.90
ATOM	632	N	GLU	A	385	10.949	-3.404 1.163	1.00	18.61
ATOM	633	CA	GLU	A	385	11.718	-2.462 1.970	1.00	19.58
ATOM	634	CB	GLU	A	385	12.274	-3.154 3.213	1.00	17.43
ATOM	635	CG	GLU	A	385	11.292	-3.237 4.357	1.00	22.92
ATOM	636	CD	GLU	A	385	11.963	-3.676 5.640	1.00	25.83
ATOM	637	OE1	GLU	. A		12.431	-2.799 6,391	1.00	23.69
ATOM	638	OE2	GLU	A	385	12.027	-4.897 5.889	1.00	27.64
ATOM	639	C	GLU	A	385	12.890	-1.934 1.156	1.00	19.46
ATOM	640	ŏ.	GLU	A	385	13,206	-0,743 1.196	1.00	15.04
ATOM	641	N	ILE	A	386	13.539	-2.842 0.431	1.00	13.32
ATOM	642	CA	ILE	A	386	14.685	-2.484 -0.388	1.00	15,01
ATOM	643	CB	ILE	A	386	15.475	-3.763 -0.807	1.00	17.43
ATOM	644	CG2	ILE	A	386	16.544	-3.424 -1.849	1.00	17.99
ATOM	645	CG1	ILE	A	386	16.185	-4.338 0.432	1.00	20.31
ATOM	646	CD1	ILE	A	386	16.682	-5.766 0.284	1.00	23.97
ATOM	647	C	ILE	A	386	14.273	-1.645 -1.598	1.00	16.10
ATOM	648	0	ILE	A	386	14.993	-0.724 -2.004	1.00	17.42
ATOM	649	N	LEU	A	387	13.112	-1.944 -2.167	1.00	17.42
ATOM	650	CA	LEU	A	387	12.620	-1.173 -3.304	1.00	18.20
ATOM	65·1	CB	LEU	A	387	11.359	-1.814 -3.882	1.00	17.51
ATOM	652	CG	LEU	A	387	11.519	-3.064 -4.747	1.00	26.37
ATOM	653	CD1	LEU	A	387	10.173	-3.406 -5.395	1.00	24.63
ATOM	654	CD2	LEU	A	387	12.589	-2.824 -5.808	1.00	21.58
ATOM	655	C	LEU	Ā	387	12.283	0.249 -2.838	1.00	17.60
ATOM	656	0	LEU	A	387	12.571	1.224 -3.530	1.00	17.15
ATOM	657	Ŋ	MET	A	388	11.677	0.357 -1.660	1.00	17.65
ATOM	658	CA	MET	A	388	11.286	1.656 -1.121	1.00	18.49
ATOM	659	CB	MET	A	388	10.302	1.460 0.034	1.00	19.65
ATOM	660	CG	MET	A	388	8.893	1.105 -0.435	1.00	15.12
ATOM	661	SD	MET	Ā	388	7.744	0.769 0.910	1.00	18.73
ATOM	662	CE	MET	A	388	6.163	0.908 0.048	1.00	18.34
ATOM	663	C	MET	A	388	12.451	2.553 -0.691	1,00	22.62
ATOM	664	0	MET	A	388	12.417	3.767 -0.928	1.00	22.62
ATOM	665	. N	ILE	Ā	389	13.482	1.988 -0.064	1.00	21.45
ATOM	666	CA	ILE	A	389	14.604	2.831 0.331	1.00	18.54
ATOM	667 [.]	CB	ILE	A	389	15.590	2.108 1.299	1.00	19.35
ATOM	668	CG2	ILE	A	389	16.362	0.998 0.578	1.00	
ATOM	669	CG1	ILE	A	389	16.556			15.50
ATOM	670	CD1	ILE	A	389	17.373		1.00	21.95
ATOM	671	CDI	ILE	A			2.658 3.080 3.322 -0.922	1.00	15.86
					389	15.333		1.00	18.67
ATOM	672	0	ILE	A	389	15,813	4.453 -0.970	1.00	19,75
ATOM	673	N	GLY	A	390	15.410	2.477 -1.943	1.00	20.58
ATOM	674	CA	GLY	A	390	16.049	2.895 -3.183	1.00	19.33
MOTA	675	C	GLY	A	390	15.243	4.021 -3.819	1.00	17.48
ATOM	676	0	GLY	A	390	15.801	4.994 -4.318	1.00	21.87
ATOM	677	N	LEU	A	391	13.920	3.888 -3.787	1.00	19.17
ATOM	678	CA	LEU	A	391	13.018	4.887 -4.343	1.00	21.50
ATOM	679	CB	LEU	A	391	11.561	4.420 -4.194	1.00	18.25
ATOM	680	CG	LEU	A	391	10.480	5.497 -4.342	1.00	21.98
ATOM	681	CD1	LEU	Α	391	10.579	6.156 -5.725	1.00	21.39
MOTA	682	CD2	LEU	A'	391	9.115	4.868 -4.148	1.00	17.15

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	1 5014	603	_	T ENDY		201		C 01C 2 684	1 44	A2 9#
	mota Mota	683 684	С 0	LEU	A A	391 391	13.208 13.440	6.216 -3.620 7.255 -4.243	1.00	23.27 - · · · · · · · · · · · · · · · · · ·
	ATOM	685	N	VAL	Ä	392	13.122	6.170 -2,295	1.00	23.04
	ATOM	686	CA	VAL	A	392	13.282	7,357 -1.469	1.00	24.42
	ATOM	687	CB	VAL	A	392	13.186	6.993 0.042	1.00	27.38
	ATOM	688	CG1	VAL	A	392	13.733	8.129 0.897	1.00	30.37
	MOTA	689	CG2	VAL	A	392	11.739	6.712 0.414	1.00	23.48
	ATOM	690	C	VAL	A	392	14.626	8.014 -1.754	1.00	27.55
	MOTA	691	0	VAL	A	392	14.728	9.242 -1.832	1.00	27.50
	MOTA	692	N	TRP	A	393	15.652	7.186 -1.924	1.00	23.65
	ATOM	693	CA	TRP	A	393	16.999	7.670 -2.204	1.00	24.76
	MOTA	694	CB	TRP	A	393	17.977	6.491 -2,199	1.00	22.86
	MOTA	695	CG	TRP	A,	393	19.287 20.341	6.784 -2.857	1.00	25.90
	MOTA MOTA	696 697	CD2 CE2	TRP TRP	A A	393 393	21.375	7.605 -2.339 7.612 -3.302	1.00	28.09 29.94
	MOTA	698	CE3	TRP	A	393	20.512	8.335 -1.154	1.00	30.20
	ATOM	699	CD1	TRP	A	393	19.710	6.339 -4.077		26.55
	ATOM	700	NE1	TRP	A	393	20.963	6.833 -4.351	1.00	30.64
	ATOM	701	CZ2	TRP	A	393	22.566	8.323 -3.120	1.00	32.43
	ATOM	702	CZ3	TRP	A	393	21.698	9.044 -0.971	1.00	34.58
	MOTA	703	CH2	TRP	A	393	22.709	9.030 -1.950	1.00	36.54
	ATOM	704	C	TRP	A	393	17.082	8.414 -3.547	1.00	25.02
	ATOM	705	0	TRP	Ą	393	17.767	9.435 -3.650	1.00	20.97
	ATOM	706	N	ARG	A	394	16.399	7.897 -4.568	1.00	23.06
	ATOM	707	CA	ARG	A	394	16.412	8,531 ~5.890	1.00	25.97
•	MOTA MOTA	708 709	CB CG	ARG ARG	A A	394 394	15.776 16.243	7.633 -6.965 6.195 -7.024	1.00	24.05 26.05
	ATOM	710	CD	ARG	A	394	15.830	5.551 -8.352	1.00	22.70
	ATOM	711	NE	ARG	A	394	14.443	5.071 -8.363	1.00	20.71
	ATOM	712	CZ	ARG	A	394	14.053	3.912 -7.841	1.00	21.26
	ATOM	713	NH1	ARG	A	394	14.944	3.108 -7.267	1.00	20.09
	ATOM	714	NH2	ARG	A	394	12.783	3.544 -7.907	1.00	21.26
	ATOM	715	C	ARG	A	394	15.622	9.833 -5.879	1.00	23.40
	MOTA	716	0	ARG	A	394	15.889	10.729 -6.677	1.00	28.61
	MOTA	717	N	SER	A	395	14.638	9.924 -4.988	1.00	26.65
	MOTA	718	CA	SER	A	395	13.776	11.104 -4.902 10.696 -4.382	1.00	27.46
	atom atom	719 720	CB QG	ser ser	A A	395 395	12.395 11.916	9.530 -5.029	1.00 1.00	26.70 22.95
	ATOM	721	C	SER	A	395 395	14.316	12.240 -4.033	1.00	31.45
	ATOM	722	0	SER	A	395	13.726	13.324 -3.977	1.60	28.11
	ATOM	723	N	MET	A	396	15.437	11.986 -3.368	1.00	33.83
	ATOM	724	CA	MET	A	396	16.061	12.954 -2.475	1.00	38.83
	ATOM	725	CB	MET	A	396	17,466	12.483 -2.112	1.00	39.47
	MOTA	726	CG	MET	A	396	17.585	11.919 -0.715	1.00	41,37
	ATOM	727	SD	MET	Α	396	19.192	12.262 0.004	1.00	42.20
	ATOM	728	CE	MET	A	396	20.263	11.996 -1.404	1.00	42.84
	ATOM	729	C	MET	A	396	16.143	14.376 -3.018	1.00	40.69
	ATOM	730	0	MET	A	396	15.637	15.316 -2.403	1.00	38.85
	ATOM	731 732	N CA	GLU	A	397 397	16.794	14.526 -4.166	1.00	42.19
	ATOM ATOM	732 733	CA CB	GLU	A A	397 397	16.971 18.184	15.831 -4.790 15.785 -5.729	1.00 1.00	44.80 46.02
	ATOM	734	CG	GLU	A	397	17.883	15.189 -7.096	1.00	54.42
	ATOM	735	CD	GLU.	A	397	19.117	14.665 -7.810	1.00	59.40
	ATOM	736	OE1	GLU	A	397	19.219	13.430 -7.990	1.00	60.63
	ATOM	737	OE2	GLU	A	397	19.980	15.485 -8.196	1.00	62.71
	ATOM	738	C	GLU	A	397	15.735	16.322 -5.554	1.00	42.94
	ATOM	739	0	GLU	Α	397	15.830	17.229 -6.376	1:00	44.68
	ATÓM	740	N	HIS	A	398	14.579	15.728 -5.280	1.00	40.82

ATOM	741	CA	HIS	A	398	13.342	16.118 -5.950	1.00	39.21
ATOM	742	CB	HIS	A	398	12.924	15.043 -6.956	1.00	39.05
MOTA	743	ÇG	HIS	A	398	13.870	14.886 -8.104	1.00	41.57
ATOM ·	744	CD2	HIS	A	398	13.904	15.484 -9.318	1.00	39.28
ATOM	745	ND1	HIS	A	398	14.940	14.017 -8.074	1.00	41,85
MOTA	746	CE1	HIS	A	398	15.592	14.086 -9.220	1.00	40.88
ATOM	747	NE2	HIS	A	398	14.985	14.969 -9.993	1.00	42.30
ATOM	748	C	HIS	A	398	12,216	16.332 -4.944	1.00	37.04
ATOM	749	0	HIS	A	398	11.282	15.535 -4.864	1.00	36.51
ATOM	750	N	PRO	A	399	12.283	17.427 -4.171	1.00	39.19
ATOM	751	CD	PRO	A	399	13.328	18.467 -4.198	1.00	35.36
ATOM	752	CA	PRO	Α	399	11.243	17.709 -3.173	1.00	37.10
ATOM	753	CB	PRO	Α	399	11.603	19.101 -2.654	1.00	37.86
ATOM	754	CG	PRO	A	399	13.050	19.267 -2.963	1.00	35.83
ATOM	755	C	PRO	Α	399	9.828	17.663 -3.744	1.00	37.02
ATOM	756	O	PRO	A	399	9.554	18.249 -4.789	1.00	38.52
ATOM	757	N	GLY	A	400	8.938	16.954 -3.057	1.00	33.58
ATOM	758	CA	GLY	A	400	7.559	16.865 -3.503	1.00	32.12
ATOM	759	C	GLY	A	400	7.230	15.706 -4.428	1.00	32.43
ATOM	760	Ö	GLY	A	400	6.063	15.344 -4.574	1.00	33.21
MOTA	761	N	LYS	Α	401	8.237	15.112 -5.055	1,00	31.35
ATOM	762	CA	LYS	A	401	7.972	14.007 -5.966	1.00	30.75
ATOM	763	CB	LYS	A	401	8.235	14.430 -7.415	1.00	35.43
ATOM	764	CG	LYS	A	401	8.130	15.927 -7.675	1.00	35.15
ATOM	765	CD	LYS	A	401	9.096	16.353 -8.774	1.00	36.88
ATOM	766	CE	LYS	A	401	8.733	17.721 -9.331	1.00	36.71
ATOM	767	NZ	LYS	A	401	7.295	18.027 -9.116	1.00	34.22
ATOM	768	C	LYS	A	401	8.768	12.746 -5.677	1.00	30.97
ATOM	769	Ö	LYS	A	401	9.809	12.776 -5.006	1.00	27,60
ATOM -	770	N	LEU	A	402	8.256	11.635 -6.197	1.00	27.28
ATOM	771	CA.	LEU	A	402	8.889	10.334 -6.050	1.00	29.07
ATOM	772	CB	LEU	A	402	7.866	9.294 -5.590	1.00	22.55
ATOM	773	CG	LEU	A	402	7.265	9.555 -4.207	1.00	24.94
ATOM	774	CD1	LEU	A	402	6.126	8.583 -3.937	1.00	19.32
ATOM	775	CD2	LEU	Α	402	8.355	9.416 -3.157	1.00	21.54
ATOM	776	C	LEU	A	402	9.448	9.948 -7.414	1.00	28.78
ATOM	777	0	LEU	A	402	8.704	9.836 -8.389	1.00	29.98
ATOM	778	N	ĻEU	A.	403	10.761	9.770 -7.487	1.00	27.57
ATOM	779	CA	LEU	A	403	11.393	9.400 -8.744	1.00	27.17
ATOM	780	CB	LEU	A	403	12.825	9.937 -8,816	1.00	26.95
ATOM	781	CG	LEU	A	403	13.401	10.027-10.238		
ATOM	782	CD1	LEU	A	403	14.519	11.046-10.288	1.00	30.42 30.76
ATOM	783	CD2	LEU	A	403	13.915	8.665-10.676	1.00	33.11
ATOM	784	CDZ	LEU	A	403				
ATOM	785	0	LEU		403	11.419 12.428	7.891 -8.901	1.00	24.78
ATOM	786			A			7.257 -8.619	1.00	24.68
		N	PHE	A	404	10.306	7.319 -9.344	1.00	23.11
ATOM	787	CA	PHE	A	404	10.239	5.881 -9.546	1.00	26,93
ATOM	788	CB	PHE	A	404	8.826	5.470 -9.946	1.00	27.04
ATOM	789	CG	PHE	A	404	7.850	5.513 -8.816	1.00	27.89
ATOM	790	CD1	PHE	A	404	7.028	6.623 -8.631	1.00	26.20
ATOM	791	CD2	PHE	A	404	7.750	4.444 -7.925	1.00	23.10
ATOM	792	CE1	PHE	A	404	6.116	6.668 -7.573	1.00	25.29
ATOM	793	CE2	PHE	A	404	6.845	4.481 -6.870	1.00	21.01
ATOM	794	CZ	PHE	A	404	6.026	5.595 -6.693	1.00	22.91
ATOM	795	C	PHE	A	404	11.232	5.507-10.637	1.00	26.04
ATOM	796	0	PHE	A	404	11.882	4.464-10.578	1.00	27.27
ATOM	797	N	ALA	A	405	11.348	6.383-11.626	1.00	28.80
ATOM	798	CA	ALA	A	405	12.271	6.195-12.740	1.00	29.21

MOTA	799	CB	ALA	A	405	11.650	5.287-13.806	1.00	26.89
MOTA	800	C	ALA	A	405	12.549	7.578-13.317	1.00	30,23
ATOM	801	0	ALA	A	405	11.770	8.508-13.109	1.00	27.38
ATOM	802	N	PRO	A	406	13.672	7,737-14.032	1.00	30.05
ATOM	803	CD	PRO	A	406	14.712	6.745-14.352	1.00	26.31
MOTA	804	CA	PRO	A	406	13.977	9.053-14.604	1.00	32.10
MOTA	805	CB	PRO	A	406	15.232	8.800-15.438	1.00	31.28
MOŢĄ	806	CG	PRO	A	406	15.865	7.602-14.776	1.00	31.44
MOTA	807	C	PRO	A	406	12.820	9.589-15.436	1.00	32.58
ATOM		0	PRO	A	406	12.605	10.796-15.507	1.00	32.58
ATOM	809	N	ASN	A	407	12.063	8.690-16.053	1.00	32.85
ATOM	810	CA	ASN	A	407	10.935	9.119-16.865	1.00	32.78
MOTA	811	CB	ASN	A	407	10.950	8.418-18.228	1.00	34.73
ATOM	812	CG	ASN	A	407	10.884	6.907-18.121	1.00	35.37
ATOM ATOM	813 814	OD1 ND2	asn Asn	A A	407 407	11.189	6.317-17.077		30.24
ATOM	815	C	ASN	A	407	10.486 9.605	6.268-19,215	1.00	34.08
ATOM	816	0	ASN	A	407	8.549	8.901-16.166 8.897-16.798	1.00	34.90
ATOM	817	N	LEU	A	408	9.660	8.724-14.851	1.00	36.09 33.56
ATOM	818	CA	LEU	A	408	8.452	8.544-14.061	1.00	35.59
ATOM	819	CB	LEU	A	408	8.141	7.062-13.851	1.00	33.81
ATOM	820	CG	LEU	A	408	6.696	6.823-13.397	1.00	35.44
ATOM	821	CD1	LEU	A	408	5.746	7.479-14.390	1.00	34.14
ATOM	822	CD2	LEU	A	408	6.406	5.334-13.287	1.00	32.96
MOTA	823	C	LEU	A	408	8.607	9.245-12.717	1.00	38.03
ATOM	824	O	LEU	A	408	8.880	8.614-11.695	1.00	36.38
ATOM	825	N .	LEU	A	409	8.441	10.563-12.741	1.00	37.87
ATOM	. 826	CA	LEU	A	409	8.548	11.395-11.553	1.00	37.95
ATOM	827	CB	LEU	A	409	9.373	12.636-11.877	1.00	39.52
MOTA	828	CG	LEU	Α	409	10.023	13.399-10,728	1.00	42.46
ATOM	829	CD1	LEU	Α	409	11.100	12.547-10.082	1.00	43.24
ATOM	830	CD2	LEU	A	409	10.614	14.691-11.266	1.00	46.05
ATOM	831	C	LEU	A	409	7.132	11.792-11.163	1.00	37.13
ATOM	832	0	LEU	A	409	6.482	12.546-11.882	1.00	35.70
MOTA	833	N	LEU	A	410	6.654	11.284-10.030	1.00	35.29
MOTA MOTA	834 835	CA CB	LEU	A	410	5.297	11.576 -9.583	1.00	33.33
ATOM	836	CG	LEU	A	410 410	4.503	10.277 -9.449	1.00	29.37
ATOM	837	CD1	LEU	A A	410		9.238-10.560 7.925-10.104		32.75
ATOM	838	CD2	LEU	A	410		9.744-11.819		29.16
ATOM	839	C	LEU	A	410	5.207		1.00	30.70 35.14
ATOM	840	ō.	LEU	A	410	6.078	12.214 -7.400	1.00	36.94
ATOM	841	N	ASP	A	411	4.141	13.108 -8.105	1.00	34.76
ATOM	842	CA	ASP	A	411	3.933	13.843 -6.873	1.00	35.40
ATOM	843	CB	ASP	A	411	3.733	15.341 -7.144	1.00	40.02
MOTA	844	CG	ASP	Α	411	2.471	15.645 -7.928	1.00	41.32
ATOM	845	OD1	ASP	A	411	1.570	14.785 -8.001	1.00	45.03
ATOM	846	OD2	ASP	A	411	2.383	16.764 -8.474	1.00	45.01
ATOM	847	Ç	ASP	Α	411	2.727	13.234 -6.179	1.00	36.10
MOTA	848	0	ASP	A	411	2.033	12.395 -6.762	1.00	34.08
ATOM	849	N	ARG	A	412	2.480	13.647 -4.940	1.00	35.99
ATOM	850	CA	ARG	Α	412	1.375	13.099 -4.169	1.00	39.37
ATOM	851	CB	ARG	A	412	1.260	13.824 -2.825	1.00	39.75
ATOM	852	CG	ARG	A	412	0.562	15.168 -2.870	1.00	40.49
MOTA	853	CD	ARG	A	412	0.454	15.736 ~1.465	1.00	40.65
MOTA	854	NE	ARG	A	412	-0.261	14.826 -0.577	1.00	37.48
ATOM	855	CZ	ARG	A	412	-1.574	14.855 -0.384	1.00	42.84
ATOM	856	NH1	ARG	A	412	-2.316	15.754 -1.024	1.00	40.82

atom	857	NH2	ARG	A	412	-2.150	13.986 0.438	1.00	38.32
ATOM	858	C	ARG	A	412	0.034	13,108 -4.889	1.00	39.80
ATOM	859	0	ARG	A	412	-0.775	12.201 -4.706	1.00	39.92
ATOM	860	N	ASN	A	413	-0.198	14.119 -5.717	1.00	41.64
MOTA	861	CA	ASN	A	413	-1.458	14.215 -6.440	1.00	43.19
ATOM	862	CB	ASN	A	413	-1.518	15,533 -7.210	1.00	46.44
ATOM	863	CG	ASN	A	413	-1.739	16.718 -6.299	1.00	47.86
ATOM	864	OD1	ASN	A	413	-2.376	16.594 -5.249	1.00	48.05
ATOM	865	ND2	ASN	A	413	-1.213	17.876 -6.687	1.00	49.43
ATOM	866	C	ASN	A	413	-1.673	13.044 -7.385		
	867	0	ASN	A	413			1.00	41.48
ATOM						-2.792	12.567 -7.546	1.00	40.50
ATOM	868	N	GĽŅ	Α.	414	-0.600	12.577 -8.010	1.00	42.82
MOTA	869	CA	GLN	A	414	-0.703	11.448 -8.925	1.00	
MOTA	870	CB	GLN	A	414	0,585	11.307 -9.741	1.00	47.52
ATOM	871	CG	GLN	A	414	0.572	12.088-11.049	1.00	50.47
MOTA	872	CD	GLN	A	414	1.914	12.713-11.375	1.00	53.91
ATOM	873	OE1	GLN	Α	414	2.591	13.257-10.501	1.00	53.68
ATOM	874	NE2	GLN	A	414	2.309	12.637-12.641	1.00	56.91
MOTA	875	C	GLN	Α	414	-0.970	10.163 -8.141	1.00	43.21
ATOM	876	0	GLN	Α	414	-1.491	9.193 -8.682	1.00	42.33
ATOM	877	N	GLY	Α	415	-0.618	10.168 -6.860	1.00	41.97
ATOM	878	CA	GLY	Α	415	-0.836	8.992 -6.040	1.00	40.43
ATOM	879	C	GLY	A	415	-2.306	8.720 -5.804	1.00	40.80
ATOM	880	0	GLY	A	415	-2.696	7.601 -5.472	1.00	37.83
ATOM	881	N	LYS	A	416	-3.129	9.748 -5,978	1.00	42.16
ATOM	882	CA	LYS	A	416	-4.566	9.613 -5.779	1.00	44.34
ATOM	883	CB	LYS	A	416	-5.212	10.996 -5.704	1.00	45.65
ATOM	884	CG	LYS	A	416	-4.761	11.819 -4.510		
	885	CD			416			1.00	47.42
ATOM			LYS	A		-4.910	13.309 -4.777	1.00	50.97
ATOM	886	CE	LYS	A	416	-5.992	13.924 -3.898	1.00	53.25
ATOM	887	NZ	LYS	A	416	-5.416	14.764 -2.809	1.00	56.95
ATOM	888	C	LYS	A	416	-5.227	8.793 -6.886	1.00	45.33
ATOM	889	0	LYS	A	416	-6.339	8.299 -6.714	1.00	46.50
ATOM	890	N	CYS	A	417	-4.540	8.648 -8.015	1.00	45.18
ATOM	891	CA	CYS	Α	417	~5.066	7.890 -9.148	1.00	46.25
MOTA	892	CB	CYS	Α	417	-4.062	7.902-10.305	1.00	49.29
ATOM	893	SG	CYS	Α	417	-3.916	9.493-11.168	1.00	49.59
ATOM	894	C	CYS	A	417	-5.373	6.452 -8.752	1.00	47.18
ATOM	895	0	CYS	A	417	-6.220	5.794 -9.359	1.00	46.50
ATOM	896	N	LAV	Α	418	-4.671	5.968 -7.731	1.00	45.07
MOTA	897	CA	VAL	A	418	-4.866	4.612 -7,232	1.00	42.75
ATOM	898	CB	VAL	A	418	-3.525	3.841 -7.206	1.00	42.45
ATOM	899	CG1	VAL	A	418	-3.670	2.563 -6.410	1.00	40.22
ATOM	900	CG2	VAL	A	418	-3.071	3.538 -8.634	1.00	38.03
ATOM	901	C	VAL	Α	418	-5.441	4.714 -5.818	1.00	41.46
ATOM	902	0	VAL	A	418	-4.883	5.400 -4.963	1.00	42.08
ATOM	903	N	GLU	A	419	-6.559	4.036 -5.579		40.95
ATOM	904	CA	GLU	A	419	-7.223	4.073 -4.275	1.00	42.51
ATOM	905	CB	GLU	A	419	-8.536	3.282 -4.333	1.00	44.52
ATOM	906	CG	ĢĽU	A	419	-9.010	2.751 -2.984	1.00	50.42
ATOM	907	CD	GLU		419	-10.413	2.168 -3.035	1.00	54.38
ATOM	908			A					
		OE1	•	A	419	-10.582	1.059 -3.590	1.00	54.09
ATOM	909	OE2	GLU	A	419	-11.347	2.820 -2.516	1.00	57.90
ATOM	910	C	GLU	A	419	-6.370	3.552 -3.121	1.00	41.11
MOTA	911	0	GLU	A	419	-5.955	2.393 -3.116	1.00	39.42
ATOM	912	N	GLY	A	420	-6.129	4.419 -2.140	1.00	40.53
ATOM	913	CA	GLY	A	420	-5.346	4.049 -0.973	1.00	37.61
ATOM	914	С	GLY	Α	420	-3.854	4.258 -1.140	1.00	37.01

ATOM	915	0	GLY	A	420	-3.088	4.105 -0.190	1.00	32.59 -	
ATOM	916	N	MET	A	421	-3.444	4.623 -2.350		36.21	
ATOM	917	ÇA	MET	A	421	-2.035	4.825 -2.656	1.00	36,02	
ATOM	918	CB	MET	A	421	-1.799	4.607 -4.160	1.00	32.84	
ATOM	919	CG	MET	A	421	-0.351	4.754 -4.617	1.00	35.82	
MOTA	920	SD	MET	A	421	0.806	3.611 -3.812	1,00	35.57	
ATOM	921	CE	MET	A	421	0.881	2.294 -5.005	1.00	32.51	
ATOM	922	C	MET	A	421	-1.474	6.180 -2.226	1.00	34.93	
ATOM	923	ō	MET	A	421	-0.275	6.294 -1.985	1,00	35.17	
ATOM	924	N	VAL	A	422	-2.319	7.205 -2.118	1,00	33.97	
ATOM	925	CA	VAL	A	422	-1.823	8.520 -1.708	1.00	31.29	
ATOM	926	CB	VAL	A	422	-2.927	9.607 -1.766	1.00	33.14	
ATOM	9.27	CG1	VAL	A	422	-3.823	9.535 -0.533	1.00	30.10	
ATOM	928	CG2	VAL	A	422	-2.279	10.982 -1.854	1.00	30.08	
ATOM	929	C	VAL	A	422	-1.231	8.498 -0.296	1.00	32.64	
ATOM	930	Õ	VAL	A	422	-0.274	9.220 0.002	1.00	28.41	
ATOM	931	Й	GLU	A	423	-1.803	7.670 0.571		31.53	
ATOM	932	CA	GLU	A	423	-1.311	7.558 1.935	1.00	35.99	
ATOM	933	CB	GLU	A	423	-2.190	6.594 2.737	1.00	40.37	
ATOM	934	CG	GLU	A	423	-3.588	7.129 3.043	1.00	40.37	
ATOM	935	CD	GLU	A	423	-4,438	7.129 3.043	1.00		
ATOM	936	OE1	GLU	A	423	-5.349	8.188 1.835		52.38	
ATOM	937	OE2	GLU	A	423	-4.200	6.652 0.776	1.00	56.91	
ATOM	938	C	GLU	A	423	0.127		1.00	54.53	
ATOM	939	Õ	GLU	A	423	1.007		1.00	34.83	
ATOM	940	N	ILE	A	423	0.369	7.552 2.581	1.00	31.85	
ATOM	941	CA	ILE		424		6.038 1.050	1.00	30.17	
ATOM	942	CB	ILE	A A	424	1.7 11 1.696	5.488 0.929	1.00	28.99	
MOTA	943	CG2	ILE	A	424	3.108	4,195 0.109 3,588 0.068	1.00	30.96	
ATOM	944	CG1	ILE	A	424	0.671		1.00	27.20	
MOTA	945	CD1	ILE	A	424	0.810	3.230 0.725 1.787 0.291	1,00	30.77	
ATOM	946	CDI	ILE	A	424	2.700		1.00	34.69	
MOTA	947	0	ILE	A	424	3.856		1.00	28.21	
ATOM	948	Ŋ	PHE	A	425	2.253	6,551 0.735 7.260 -0.675	1.00	28.48	
ATOM	949	CA	PHE		425	3.119		1.00	27.68	
ATOM	950	CB	PHE	A			8.253 -1.315	1.00	27.30	
ATOM	951	CG	PHE	A A	425 425	2.381	8.958 -2.458 8.289 -3.798	1.00	26.36	
ATOM	952	CD1	PHE			2,538 2.619	9.050 -4.958	1.00	27.22	
ATOM	953	CD2		A	425				27.36	
ATOM	954	CE1	PHE PHE	A	425	2.566 2.721	6.900 -3.905	1.00	27.89	
ATOM	955	CE2	PHE	A A	425 425	2.668	8.443 -6.207 6.282 -5,149	1.00	29.63	
ATOM	956	CZ	PHE		425			1.00	27.28	
ATOM	957	C	PHE	A A	425	2.745	7.056 -6.303	1.00	27.63	
ATOM	958	0	PHE	A	425	3.591	9.306 -0.312	1.00	25.66	
ATOM	959	И	ASP		425	4.757	9.713 -0.328 9.746 0.552	1.00	26.33	
ATOM	960	CA	ASP	A A	426	2.680 2.984		1.00	27.92	
ATOM	961	CB	ASP				10.759 1.570	1.00	28.88	
		CG		A	426	1.721	11.102 2.369	1.00	32.58	
ATOM	962		ASP	A	426	0.781	12.034 1.613	1.00	37.47	
ATOM	963	OD1	ASP	A	426	-0.432	12.039 1.925	1.00	37.72	
ATOM	964	OD2	ASP	A	426	1.253	12.758 0.710	1.00	36.35	
ATOM	965	C	ASP	A	426	4.071	10.278 2.532	1.00	26.96	
ATOM	966	0	ASP	A	426	4.974	11.030 2.900	1.00	27.20	
ATOM	967	N	MET	A	427	3.978	9.022 2.947	1.00	25.76	
ATOM	968	CA	MET	A	427	4.981	8.468 3.856	1.00	25.89	
ATOM	969	CB	MET	A	427	4.567	7.070 4.309	1.00	21.17	
ATOM	970	CG	MET	A	427	3.385	7.072 5.257	1.00	24.38	
ATOM	971	SD	MET	A	427	3.153	5.489 6.080	1.00	34.32	
ATOM	972	CE	MET	A	427	2.173	4.637 4.910	1.00	21.03	

ATOM	973	С	MET	A	427	6.321	8.410	3.128	1.00	22.29	_
MOTA	974	Ó	MET	A	427	7.363	8.766		1.00	22.19	
ATOM	975	N	LEU	A	428	6,285	7.985		1.00	21.75	
ATOM	976	CA	LEU	A	428	7.506	7.892		1.00	22.91	
ATOM	977	CB	LEU	A	428	7.202		-0.287	1.00	18.47	
ATOM	978	ÇG	LEU	A	428	6.910		-0.267	1.00	19.24	
ATOM	979	CDI	LEU	A	428	6.278		-1.468		16.82	
ATOM	980	CD2	LEU	A	428	8.204	5.010		1.00	16.23	
ATOM	981	C	LEU	A	428	8.148	9.269		1.00	23.98	
ATOM	982	Õ	LEU	A	428	9.366	9.416		1.00	23.06	
ATOM	983	N	LEU	A	429	7.328	10.281		1.00	23.91	
ATOM	984	CA	LEU	A	429	7.837	11.642		1.00	26.29	
MOTA	985	CB	LEU	A	429	6.714		-0.003	1.00	27.47	
ATOM	986	C@	LEU	A	429	6.331		-1.476	1.00	30.78	
ATOM	987	CD1	LEU	A	429	5.022		-1.751	1.00	34.75	
ATOM	988	CD2	LEU	A	429	7.449		-2.350	1.00	31.96	
ATOM	989	e	LEU	A	429	8.425	12.166		1.00	25.83	
ATOM	990	0	LEU	A	429	9.482	12.808		1,00	26.42	
ATOM	991	N	ALA	A	430	7.734	11.890		1.00	26.45	
ATOM	992	CA	ALA	A	430	8.201	12.333		1.00	26.11	
ATOM	993	CB	ALA	Α	430	7.214	11.909		1.00	23.13	
ATOM	994	C	ALA	A	430	9.577	11.742		1.00	25.01	
ATOM	995	0	ALA	Α	430	10.455	12.409	5.005	1.00	24.31	
ATOM	996	N	THR	Α	431	9.767	10.486	4.074	1.00	25.25	
ATOM	997	CA	THR	A	431	11.046	9.825		1.00	22.78	
MOTA	998	CB	THR	A	431	10.973	8.323		1.00	21.36	
MOTA	999	OG1	THR	Α	431	9.924	7.727		1.00	20.27	
MOTA	1000	CG2	THR	A	431	12.291	7.633		1.00	19.99	
MOTA	1001	С	THR	A	431	12.103	10.477		1.00	23.73	
ATOM	1002	0	THR	A	431	13.234	10.667		1.00	19.60	
ATOM	1003	N	SER	A	432	11.736	10.819		1.00	24.32	
ATOM	1004	CA	SER	A	432	12.676	11.479		1.00	26,96	
ATOM	1005	CB	SER	A	432	12.067		-0.093	1.00	28.70	
ATOM ATOM	1006	OG C	SER	A	432	13.084		-1.039	1.00	33.42	
ATOM	1007 1008		ser ser	A A	432	13.033	12.850		1.00	27.92 30.78	
ATOM	1009		SER	A	432 433	14.176 12.045	13.294 13.521		1.00 1.00	30.76 28.96	
ATOM	1010		SER	A	433	12.269	14.824		1.00	34.21	
ATOM	1011	CB	SER	A	433	10.957	15.387		1.00	35.07	
ATOM	1012	OG	SER	A	433	10.175	15.961		1.00	42.38	
ATOM	1013	C	SER	A	433	13.263	14.644		1.00	33.43	
ATOM	1014	ō	SER	A	433	14,152	15.473		1.00	31.94	
ATOM	1015	N	ARG	A	434	13.105	13.545		1.00	31.32	
ATOM	1016	CA	ARG	A	434	13.980	13.236		1.00	29.78	
ATOM	1017	CB	ARG	A	434	13.468		6.819	1.00	29.84	
MOTA	1018	CG	ARG	A	434	14.331	11.541		1.00	32.17	
ATOM	1019	CD	ARG	A	434	14.626	12.672	8.958	1.00	37.00	
ATOM	1020	NE	ARG	A	434	15.321	12.169	10.140	1.00	39.44	
ATOM	1021	CZ	ARG	A	434	15.935	12.935	11.034	1.00	44.06	
ATOM	1022		ARG	A	434	15.949		10.885	1.00	45.52	
MOŢA	1023		ARG	A	434	16.528		12.084	1,00	45.01	
ATOM	1024		ARG	A	434	15.413		5.605	1,00	29.24	
MOTA	1025		ARG	A	434	16.352		6.173	1.00	29.72	
ATOM		N	PHE	A	435	15.577	12.206	4.561	1,00	28.95	
ATOM	1027		PHE	A	435	16.901		4.000	1.00	30.59	
ATOM	1028	CB	PHE	A	435	16.777	11.045		1.00	32.03	
ATOM	1029	eg cp:	PHE	A	435	16.795	9.563		1.00	31.88	
ATOM	1030	CDI	PHE	A	435	16.758	9.084	4.359	1.00	35.60	

	MOTA	1031	CD2	PHE	A	435	16.847	8.643	2,069	1.00	35.89	
	atom	1032	CEL	PHE						-		
		1032	CE2	PHE	A	435	16.771	7.709	4.622	1.00	35.36	
	ATOM		CZ	PHE	A	435	16.860	7.271	2.262	1.00	32.71	
	MOTA	1034			A	435	16.821	6.807	3.570	1.00	33.24	
•	ATOM.	1035	C	PHE	A	435	17.576	13.253	3.607	1.00	32.73	
	ATOM	1036	0	PHE	A	435	18.763	13.464	3.871	1.00	31.16	
	MOTA	1037	N	ARG	A	436	16.812	14.137	2.975	1.00	33.37	
	MOTA	1038	CA	ARG	A	436	17.341	15.429	3.549	1.00	39.13	
	MOTA	1039	CB	ARG	A	436	16.282	16.206	1.756	1.00	40.42	
	ATOM	1040	CG	ARG	A	436	16.846	17.317	0.877	1.00	43,09	
	atom	1041	CD	arg	A	436	15.750	17.960	0.040	1.00	44.53	
	ATOM	1042	NE	ARG	A	436	14.826	16.955		1.00	48.34	
•	ATOM	1043	CZ	ARG	Α.	436	13.530	16.913	-0.184	1.00	48.81	
	ATOM	1044	NH1	arg	A	436	12.997	17.823	0.619	1.00	47.80	
	mota	1045	NH2	ARG	A	436	12.769	15.950	-0.687	1.00	49.53	
	ATOM	1046	C	ARG	A	436	17.792	16.250	3.753	1.00	38.10	
	MOTA	1047	O	ARG	A	436	_~ 18.896	16,789	3.764	1.00	41.00	
	ATOM	1048	N	MET	A	437	16.936	16.334	4.766	1.00	39.47	
	ATOM	1049	ÇA	MET	Α	437	17.257	17,087	5.975	1.00	38.20	
	ATOM	1050	CB	MET	A	437	16.102	16.998	6.965	1,00	39.79	
	ATOM	1051	C	MET	A	437	18,550	16.594	6.626	1.00	41.15	
	ATOM	1052	0	MET	A	437	19.303	17.378	7.201	1.00	40.20	
	MOTA	1053	N	MET	A	438	18.804	15.285	6.538	1.00	39.65	
	ATOM	1054	CA	MET	A	438	20.011	14.693	7.117	1.00	39.70	
	MOTA	1055	ĊB	MET	A	438	19.787	13,221	7.463	1.00	39.90	
	ATOM	1056	CG	MET	A	438	18.694	12.938	8.460	1.00	41.94	
	MOTA	1057	SD	MET	Α	438	18.747	11.188	8,880	1.00	43.12	
	ATOM	1058	CE	MET	A	438	20.374	11.064	9.619	1.00	43.73	
	ATOM	1059	C	MET	A	438	21.176	14.756	6.142	1.00	38.03	
	ATOM	1060	0	MET	A	438	22.321	14.503	6.522	1.00	38.39	
	ATOM	1061	N	ASN	A	439	20.886	15.070	4.895	1.00	37,64	
	ATOM	1062	CA	ASN	A	439	21.924	15.118	3.895	1.00	35.68	
	ATOM	1063	CB	asn	A	439	23.019	16,125	4.243	1.00	40.98	
	ATOM	1064	CG	ASN	A	439	23.933	16.407	3,090	1.00	45.09	
	ATOM	1065	0D1	ASN	A	439	23.528	16.295	1.934	1.00	47.16	
	ATOM ·	1066	ND2	ASN	A	439	25.197	16.733	3.372	1.00	46,87	
	ATOM	1067	C	ASN	A	439	22.552	13.732	3.739	1.00	31.06	
	MOTA	1068	0	ASN	A	439	23.764	13.581	3.649	1.00	29.54	
	MOTA	1069	N	LEU	A	440	21.692	12.698	3,704	1.00	31.47	
	ATOM	1070	CA	LEU	A	440	22.161	11.326	3.579	1.00	31.63	
	ATOM	1071	CB	LEU	A	440	20.991	10.344	3.380	1.00	33.05	
	ATOM	1072	CG	LEU	Α	440	21,451	8,886	3.209	1.00	37.07	
	ATOM	1073	CD1	LEU	Α	440	21.957	8.353	4.546	1.00	36.18	
	ATOM	1074	CD2	LEU	A	440	20.318	8.032	2.682	1.00	32.33	
	ATOM	1075	C	ĻEU	Α	440	23.146	11.161	2.435	1.00	32.10	
	ATOM	1076	0	LEU	A	440	22.925	11.671	1.333	1.00	32.76	
	ATOM	1077	N	GLN	A	441	24.225	10.450	2.702	1.00	32.54	
	ATOM	1078	CA	GLN	A	441	25.255	10.220	1,699	1.00	31,97	
	ATOM	1079	CB	GLN	Α	441	26.632	10.320	2.345	1.00	31.75	
	ATOM	1080	CG	GLN	A	441	26.896	11.669	2.979	1.00	35.56	
	ATOM	1081	CD	GLN	A	441	27.040	12.748	1.939	1.00	34.97	
	ATOM	1082	OE1	GLN	A	441	27,985	12.782	1.167	1.00	35.51	
	ATOM	1083	NE2	GLN	A	441	26.053	13.659	1.899	1.00		
	ATOM	1084	C	GLN	A	441	25.100	8.860	1.038	1.00	34.08	
	ATOM	1085	ō	GLN	A	441	24.540	7.931		1.00	30.73	
	ATOM	1086	N	GLY	Α .	442	25.608	8.752		1.00	32.78	
	ATOM	1087	CA	GLY	A	442	25.528	7.503		1.00	32.91	
	ATOM	1088	c	GLY	A	442	26.181	6.350		1.00	31.87	
			-			-		2.330			 -	

MOTA	1089	^	GLY	7	442	25 642	E 045		2 00	22.10
		0		A	442	25.642	5.245		1.00	33.18
MOTA	1090 1091	N	GLU	A	443	27.340	6.603		1.00	30.60
ATOM		CA	GLU	Ą	443	28.057	5.567		1.00	30.85
ATOM	1092	CB	GLU	A.	443	29.376	6.111		1.00	32.74
ATOM	1093	CG	GLU.	A	443	30.425	6.378		1.00	36.30
ATOM	1094	CD	GLU	A	443	30.310	7.770		1,00	40.92
atom	1095	OE1	GŢÁ	A	443	29.677	8.630		1.00	42.27
MOTA	1096	OE2	GLU	A	443	30.853	8.003		1.00	46.82
ATOM	1097	C	GLU	A	443	27.206	5,048		1,00	30.43
MOTA	1098	0	GLU	A	443	27.211	3.854	2.595	1.00	28.11
Atom	1099	N	GLU	A	444	26.482	5.955	2.948	1.00	30.26
ATOM.	1100	ÇA	GLU	A	444	25.619	5.589	4.067	1.00	28.18
ATOM	1101	CB	GLU	A	444	25.147	6.843	4.797	1.00	26.32
ATOM	1102	CĢ	GĻU	A	444	26.250	7.633	5.463	1.00	29.27
ATOM	1103	CD	GLU	A	444	25.748	8.944	6.023	1.00	29.62
ATOM	1104	OE1	GLU	A	444	25,006	9.652	5.304	1.00	32.00
ATOM	1105	OE2	GLU	A	444	26.088	9.268	7,182	1.00	29.02
ATOM	1106	C	GLU	A	444	24.403	4.813	3.572	1.00	26.93
ATOM	1107	0	GLU	Α	444	23.970	3.841	4.191	1.00	24.78
ATOM	1108	Ŋ	PHE	A	445	23,861	5,256	2.443	1.00	27.79
ATOM	1109	CA	PHE	A	445	22.688	4.633	1.853	1.00	24.50
ATOM	1110	CB	PHE	A	445	22.254	5.416	0.610	1.00	25.40
ATOM	1111	CG	PHE	A	445	21.372		-0.316	1.00	23.74
ATOM	1112	CD1	PHE	A	445	20.034		-0.004	1.00	23.00
ATOM	1113	CD2	PHE	A	445	21.885		-1.489	1.00	22.37
ATOM	1114	CE1	PHE	A	445	19.215		-0.855	1.00	22.57
ATOM	1115	CE2	PHE	A	445	21.079		-2.342	1.00	21.69
ATOM	1116	CZ	PHE	A	445	19.741		-2.023	1.00	22.25
ATOM	1117	C	PHE	A	445	22.913	3.169	1.489	1.00	22.81
ATOM	1118	ō	PHE	A	445	22.083	2.316	1.796	1.00	22.92
ATOM	1119	N	VAL	A	446	24.019	2.868	0.822	1.00	22.46
ATOM	1120	CA	VAL	A	446	24.278	1.481	0.447	1.00	22.26
ATOM	1121	CB	VAL	A	446	25.522		-0.465	1.00	22.87
ATOM	1122	CG1	VAL	A	446	25.251		-1.799	1.00	22.57
ATOM	1123	CG2	VAL	A	446	26.735	1.968	0.217	1.00	22.38
ATOM	1124	C	VAL	A	446	24.467	0.614	1.694	1.00	23.68
ATOM	1125	Õ	VAL	A	446	24.177	-0.586	1.680	1.00	22.91
ATOM	1126	N	CYS	A	447	24,962	1.223	2.770	1.00	22.02
ATOM	1127	CA	CYS	A	447	25.155	0.503	4.025	1.00	24.17
ATOM	1128	CB	CYS	A	447	25.953	1.359	5.011	1.00	23.95
ATOM	1129	SG	CYS	A	447	27.738	1.324	4.731	1.00	28.57
ATOM	1130	C	CYS	A	447		0.178			
ATOM	1131	0	CYS	A	447	23.781	-0.960	4.618	1.00	21.14
	1132					23.512		5.002	1.00	19.37
ATOM		N	LEU	A	448	22.915	1.186	4.680	1.00	19.28
ATOM	1133	CA	LEU	A	448	21.568	1.002	5.219	1.00	21.31
MOTA	1134	CB	LEU	A	448	20.803	2.324	5.207	1.00	21.90
ATOM	1135	CG	LEU	A	448	21.142	3.337	6.303	1.00	26.61
MOTA	1136	CD1	LEU	A	448	20.328	4.594	6.072	1.00	27.74
MOTA	1137	CD2	LEU	A	448	20.827	2.760	7.672	1.00	24.03
MOTA	1138	C	LEU	A	448	20.766	-0.038	4.442	1.00	21.72
ATOM	1139	0	LEU	A	448	20.006	-0.803	5.030	1.00	20.87
ATOM	1140	N	LYS	A	449	20.929	-0.055	3.119	1.00	21.42
ATOM	1141	CA	LYS	A	449	20.205	-0.997	2.269	1.00	20.98
ATOM	1142	CB	LYS	Α	449	20.440	-0.659	0.788	1.00	21.55
ATOM	1143	CG	LYS	A	449	19.438	-1.297		1.00	24.82
ATOM	1144	CD	LYS	A	449	19.456	-0.613		1.00	23.33
ATOM	1145	CE	LYS	Α	449	20.816	-0.754		1.00	23.58
.ATOM	1146	NZ	LYS	A	449	20.741	-0.482	-3.698	1.00	28.77

MOTA	1147	C	LYS	A	449	20.629	-2.436	2.548	1.00	20.33
MOTA	1148	0	L¥S	A	449	19.800	-3.345	2.552	1.00	20.57
ATOM	1149		SER	A	450	21.924	-2.637	•	1.00	19.25
MOTA	1150		SER	A	450	22.451	-3.965	3.074	1.00	21.84
ATOM	1151	CB	SER	A	450	23.982	-3.953	3.041	1.00	20.59
ATOM	1152	OG	SER	A	450	24.460	-3.975	1.702	1.00	29.78
ATOM	1153	C	SER	A	450	21.975	-4.408	4.454	1.00	21.58
MOTA	1154	0	SER	A	450	21.728	-5,590	4.682	1.00	20.06
ATOM	1155	N	ILE	A	451	21.853	-3.449		1.00	22.20
ATOM	1156	CA	ILE	A	451	21.385	-3.741		1.00	22,82
ATOM	1157	CB	ILE	A	451	21.452			1.00	19.62
ATOM	1158	CG2	ILE	A	451	20.593			1.00	21.11
ATOM	1159	CG1	ILE	A	451	22.909			1.00	22.20
ATOM	1160	CD1	ILE	A	451	23.115			1.00	24.48
ATOM	1161	C	ILE	A	451	19.952			1.00	21.82
ATOM	1162	0	ILE	A	451	19.575			1.00	21.72
ATOM	1163	N	ILE	A	452	19.152			1.00	20.18
ATOM	1164	CA	ILE	Α	452	17.763			1.00	18.13
ATOM	1165	CB	ILE	A	452	17.024			1.00	19.72
ATOM	1166	CG2	ILE	A	452	15.720			1.00	18.99
ATOM	1167	CG1	ILE	A	452	16.725		5.282	1.00	18.33
ATOM	1168	CD1	ILE	A	452	16.284			1.00	23.25
ATOM	1169	С	ILE	A	452	17.725			1.00	19.50
ATOM	1170	0	ILE	Α	452	16.980		5.737	1.00	17.60
ATOM	1171	N	LEU	A	453	18.555		4.209	1.00	19.23
ATOM	1172	CA	LEU	A	453	18.589	-7.205	3.679	1.00	21.60
ATOM	1173	CB	LEU	A	453	19.624	-7.316	2.554	1.00	21.50
ATOM	1174	CG	LEU	A	453	19.835	-8.729	1.989	1.00	25.06
ATOM	1175	CD1	LEU	A	453	18.550	-9.250	1,364	1.00	25.27
ATOM	1176	CD2	LEU	A	453	20.948	-8.694	0.953	1.00	24.73
ATOM	1177	C	LEU	A	453	18.906	-8.245	4.746	1.00	19.41
ATOM	1178	0	LEU	A	453	18.198	-9.241	4.891	1,00	20.75
ATOM	1179	N	LEU	A	454	19.966	-7.997	5.499	1.00	21.35
MOTA	1180	CA	LEU	A	454	20.410	-8.925	6.530	1.00	23.67
ATOM	1181	CB	LEU	A	454	21.870	-8.625	6.878		20.69
MOTA	1182	CG	LEU	A	454	22.816	-8.584	5.673	1.00	24.92
MOTA	1183	CD1	LEU	A	454	24.222	-8.268	6.132	1.00	24.27
MOTA	1184	CD2	LEU	A	454	22.785	-9.913	4.952	1.00	22.84
MOTA	1185	C	LEU	A	454	19.572	-8.945	7.807	1.00	26.06
ATOM	1186	0	LEU	A	454	19.413	-9,997	8.438	1.00	27.44
MOTA	1187	N	ASN	A	455	19.011	-7.795	8.167	1.00	25.01
MOTA	1188	CA	ASN	A	455	18.240	-7.681	9.400	1.00	26.10
ATOM	1189	CB	ASN	A	455	18.439	-6.295		1.00	22.67
MOTA	1190	CG	ASN	A	455	17.627	-6.109	11.264	1.00	26.67
MOTA	1191	OD1	ASN	A	455	17.899	-6.751	12.270	1.00	25.16
ATOM	1192	ND2	ASN	A	455	16.615	-5.246		1.00	20.73
MOTA	1193	C	ASN	A	455	16.739	-7.957	9,418	1.00	25.78
ATOM	1194	0	ASN	A	455	16.230	-8.516		1.00	29.22
ATOM	1195	N	SER	A	456	16.027	-7.549	8.381	1.00	28.51
ATOM	1196	CA	SER	A	456	14.578	-7.704	8.371	1.00	32.52
ATOM	1197	СВ	SER	A	456	14.019	-7.213	7.033	1.00	35.98
ATOM	1198	OG	SER	Α	456	14.266	-5.818	6.897	1.00	30.88
ATOM	1199	C	SER	A	456	14.033	-9.086	8.711	1,00	33.00
ATOM	1200	0	SER	A	456	13.112	-9.202	9.523	1.00	33.07
ATOM	1201	N	GLY	A	457	14.597	-10.130	8.117	1.00	28.40
ATOM	1202	CA	GLY	A	457	14.115	-11.464	8.413	1.00	36.28
ATOM	1203	C	GLY	A	457	15.055	-12.289	9.277	1.00	40.41
ATOM	1204	0	GLY	A	457	14.831	-13.486	9.456	1.00	38.20
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ATOM	1205 N	VAL A	458	16.095 -11.657 9.820 1.00 44.13
ATOM	1206 CA	VAL A	458	17.079 -12.356 10.647 1.00 \$1,09
ATOM	1207 CB	VAL A	458	18,214 -11,399 11.095 1.00 51,06
ATOM	1208 CG1	VAL A	458	17.688 -10.390 12.104 1.00 51.75
MOTA	1209 CG2	VAL A	458	19.365 -12.199 11.692 1.00 50.65
MOTA	1210 C	VAL A	458	16.513 -13.060 11.885 1.00 57.26
ATOM	1211 0	VAL A	458	17.085 -14.045 12.356 1.00 58.77
ATOM	1212 N	TYR A	459	
ATOM	1212 N 1213 CA	TYR A	459	
ATOM	1214 CB	TYR A	459	
ATOM	1214 CB			
ATOM	1215 CG 1216 CD1	TYR A	459 459	15.396 -11.196 15.069 1.00 71.73
MOTA	1216 CD1	TYR A		15.127 -9.888 15.462 1.00 71.93
ATOM	1217 CE1		459 450	16.147 -9.045 15.898 1.00 72.60
ATOM ATOM	1218 CD2		459	16.716 -11.644 15.128 1.00 72.77
ATOM ATOM			459	17.741 -10.812 15.560 1.00 73.55
	1220 CZ	TYR · A	459	17.450 -9.514 15.941 1.00 72.93
ATOM	1221 OH	TYR A	459	18.467 -8,687 16.351 1.00 74.56
ATOM	1222 C	TYR A	459	13.649 -14.097 13.187 1.00 71.86
ATOM	1223 O	TYR A	459	13.380 -15.099 13.852 1.00 73.11
ATOM	1224 N	THR A	460	12.981 -13.756 12.090 1.00 74.84
ATOM	1225 CA	THR A	460	11.881 -14.567 11.589 1.00 77.66
ATOM	1226 CB	THR A	460	11.246 -13.900 10.373 1.00 76.69
MOTA	1227 C	THR A	460	12.436 -15.938 11.212 1.00 80.26
ATOM	1228 O	THR A	460	11.684 -16.866 10.912 1.00 80.82
MOTA	1229 N	PHE A	461	13.762 -16.051 11.231 1.00 82.69
ATOM	1230 CA	PHE A	461	14.440 -17.299 10.905 1.00 85.63
ATOM	1231 CB	PHE A	461	15.920 -17.034 10.630 1.00 85.47
ATOM	1232 C	PHE A	461	14.284 -18.288 12.059 1.00 87.52
ATOM	1233 O	PHE A	461	14.493 -17.940 13.224 1.00 86.53
ATOM	1234 N	LEU A	462	13.914 -19.520 11.724 1.00 89.49
ATOM	1235 CA	LEU A	462	13.711 -20.568 12.718 1.00 91.34
ATOM	1236 CB	LEU A	462	12.961 -21.741 12.087 1.00 91.23
ATOM	1237 C	LEU A	462	15.016 -21.060 13.340 1.00 92.05
ATOM	1238 O	LEU A	462	16.042 -21.165 12.664 1.00 91.91
ATOM	1239 N	SER A	463	14.966 -21.357 14.635 1.00 92.53
ATOM	1240 CA	SER A	463	16.131 -21.855 15.358 1.00 92.96
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ATOM	1242 C	SER A	463	16.189 -23.371 15.200 1.00 93.39
ATOM	1243 O	SER A	463	15.156 -24.034 15.102 1.00 93.44
ATOM	1244 N	SER A	464	17.399 -23.917 15.167 1.00 93.82
ATOM	1245 CA	SER A	464	17.577 -25.355 15.015 1.00 93.85
ATOM	1246 CB	SER A	464	17.284 -25.769 13.577 1.00 93.74
ATOM	1247 C	SER A	464	18.997 -25.743 15.396 1.00 93.96
ATOM	1248 O	SER A	464	19.815 -26.074 14.535 1.00 93.65
ATOM	1249 N	THR A	465	19.279 -25.699 16.694 1.00 93.91
ATOM	1250 CA	THR A	465	20.600 -26.036 17.212 1.00 93.79
ATOM	1251 CB	THR A	465	20.952 -27.483 16.863 1.00 93.38
MOTA	1252 C	THR A	465	21.640 -25.085 16.634 1.00 93.27
ATOM	1253 0	THR A	465	21.302 -24.017 16.121 1.00 93.03
ATOM	1254 N	LEU A	466	22.907 -25.479 16.723 1.00 93.26
AŢOM	1255 CA	LEU A	466	23.999 -24.665 16.207 1.00 92,34
ATOM	1256 CB	LEU A	466	25.335 -25.338 16.498 1.00 91.59
ATOM	1257 C	LEU A	466	23.829 -24.461 14.706 1.00 92.18
ATOM	1258 0	LEU A	466	24.411 -23.545 14.125 1.00 92.67
ATOM	1259 N	LYS A	467	23.028 -25.323 14.086 1.00 91.28
MOTA	1260 CA	LYS A	467	22.772 -25.238 12.653 1.00 90.02
MOTA	1261 CB	LYS A	467	21.740 -26.287 12.240 1.00 89.93
ATOM	1262 C	LYS A	467	22.269 -23.841 12.308 1.00 88.35

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                     OE1
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                                 Α
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                                                       -15.978
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ATOM	1323	O :	ILE	A	475	25.092	-10.189	10.471	1.00	33,20	
MOTA	1324	N	HIS	A	476	24.857	-11.596	12.206	1.00	35.95	
MOTA	1325	CA	HIS	A	476	25.031	-10.540	13.193	1.00	35.06	
ATOM	1326	CB	HIS	A	476	24.681	-11.062	14.585	1.00	37.30	
ATOM	1327	CG	HIS	A	476	23,210	-11.068	14.860	1.00	43.06	
MOTA	1328	CD2	HIS	A	476	22.329	-10.051	15.017	1,00	43,93	
MOTA	1329	ND1	HIS	A	476	22.476	-12.230	14.968	1.00	45.60	
atom	1330	CE1	HIS	A	476		-11.928		1.00	47.56	
atom	1331	NE2	HIS	A	476	21.091	-10.613		1.00	46.21	
ATOM	1332	C	HIS	A	476	26.438	-9.966	13.170	1.00	35.40	
MOTA	1333	0	HIS	A	476	26.634	-8.774	13.415	1.00	35.45	
atom	1334	N	arg	A	477		-10.805	-	1.00	34.07	
MOTA	1335	CA	ARG	A	477	28.796	-10.331	12.795	1.00	34.18	
ATOM	1336	CB	ARG	A	477		-11.506		1.00	41.04	
ATOM	1337	CG	ARG	A	477		-12.459		1.00	47.61	
ATOM	1338	CD	ARG	A	477		-13.599		1.00	55.67	
MOTA	1339	NE	ARG	Ą	477		-13.675		1.00	60.17	
ATOM	1340	CZ	ARG	A	477		-12.811		1.00	61.98	
MOTA	1341	NH1	ARG	A	477		-11.803		1.00	64.29	
MOTA	1342	NH2	ARG	A	477		-12.955		1.00	62.79	
ATOM	1343	C	ARG	A	477	28.906	-9.361		1.00	30.77	
ATOM	1344	.0	ARG	A	477	29.462	-8.268		1.00	33.59	
ATOM	1345	N	VAL	A	478	28,369	-9.766		1.00	27.65	
ATOM ATOM	1346 1347	CA CB	VAL	A	478	28.389	-8.930	9.280	1.00	27.07	
ATOM	1347	CG1	VAL VAL	A.	478	27.658	-9.605	8.100	1.00	28.00	
ATOM	1349	CG2	VAL	A A	478 478	27.672 28.319	-8.678 -10.933	6.890 7,761	1.00	25.83	
ATOM	1350	C	VAL	A	478	27.689	-7.610	9.584	1.00	31.66 26.92	
ATOM	1351	0	VAL	A	478	28.216	-6,536	9.294	1,00	26.97	
ATOM	1352	N	LEU	A	479	26.499	-7.702		1.00	25.74	
ATOM	1353	CA	LEU	A	479	25.727	-6.516		1.00	27.97	
ATOM	1354	CB	LEU	A	479	24.474	-6.912		1.00	25.55	
ATOM	1355	CG	LEU	A	479	23,211	-7,229		1.00	29.01	
ATOM	1356	CD1	LEU	A	479	22.056	-7.503		1.00	27.05	
ATOM	1357	CD2	LEU	A	479	22.864	-6.063	9.584	1.00	24.92	
ATOM	1358	C	LEU	A	479	26,592	-5.582	11.369	1.00	25.39	
ATOM	1359	0	LEU	A	479	26.595	-4.370		1.00	27.39	
MOTA	1360	N	ASP	A	480	27.324	-6.158		1.00	26.04	
ATOM	1361	CA	ASP	A	480	28.206	-5.388	13.193	1.00	27,32	
ATOM	1362	CB	ASP	A	480	28.878	-6.305	14,222	1.00	26.67	
ATOM	1363	CG	ASP	A	480	27.990	-6.602	15.417	1.00	31,02	
ATOM	1364	OD1	ASP	A	480	28.355	-7.505	16.198	1.00	31.50	
ATOM	1365	OD2	ASP	A	480	26.935	-5.944	15.580	1.00	32.21	
ATOM	1366	C	ASP	A	480	29.283	-4.699	12.361	1.00	25.59	
MOTA	1367	0	ASP	A	480	29.672	-3.562	12.636	1.00	27.15	
MOTA	1368	N	LYS	A	481	29.767	-5.394	11.340	1.00	25.17	
MOTA	1369	CA	LYS	A	481	30.794	-4.830	10.477	1.00	24.93	
ATOM	1370	CB	LYS	A	481	31.306	-5.890	9.512	1.00	28.42	
MOTA	1371	CG	LYS	A	481	32.158	-6.953	10.188	1.00	35.59	
ATOM	1372	CD ·	LYS	A	481	32.894	-7.799	9.157	1.00	41.21	
	1373	CE	LYS	A	481	33,883	-6.963	8.350	1.00	41.48	
ATOM	1374	NZ	LYS	A	481	34.954	-6,388	9,215	1.00	43.22	
ATOM	1375	C	LYS	A	481	30.260	-3.635	9.696	1.00	26.12	
ATOM	1376	0	LYS	Α	481	30.979	-2.657		1.00	23.73	
ATOM	1377	Ŋ	ILE	A	482	28.996	-3.705	9,291	1.00	25.44	
MOTA	1378	CA	ILE	A	482	28.421	-2.598	8.545	1.00	27.69	•

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ATOM	1379	СВ	ILE	A	482	27.066	-2.983	7.915	1.00	27.59
ATOM	1380	CG2	ILE	A	482	26.470	-1.788		1.00	25.97
ATOM	1381	CGI	ILE	A	482	27.274	-4.131		1,00	23.80
ATOM	1382	CD1	ILE	Α	482	26.000	-4.838	-	1.00	21.30
ATOM	1383	C	ILE	A	482	28.253	-1.408		1.00	27.33
ATOM	1384	ō	ILE	A	482	28.312	-0.256		1.00	28.55
ATOM	1385	N	THR	A	483	28.046		10.768	1.00	25.03
ATOM	1386	CA	THR	A	483	27.905	•	11.760	1,00	23.62
ATOM	1387	СВ	THR	A	483	27.535		13.154	1.00	22.18
ATOM	1388	0G1	THR	A	483	26.181		13.133	1.00	25.39
ATOM	1389	CG2	THR	A	483	27.673		14.226	1.00	25.84
ATOM.	1390	C	THR	A	483	29.257		11.858	1.00	23.04
ATOM	1391	0	THR	A	483	29.331		11.846	1.60	23.55
ATOM	1392	N	ASP	A	484	30.324		11.960	1.00	22.24
ATOM	1393	CA	ASP	A	484	31.674		12.039	1.00	25.48
ATOM	1394	CB	ASP	A	484	32.718		12.107	1.00	26.88
ATOM	1395	ÇG .	ASP	A	484	32.629		13.394	1.00	32.52
MOTA	1396	OD1	ASP	A	484	32.002		14.366	1.00	33.68
ATOM	1397	OD2	ASP	Α	484	33.185	-3.198	13.434	1.00	34.63
MOTA	1398	С	ASP	A	484	31.930	0.715	10.807	1.00	25.16
ATOM	1399	0	ASP	A	484	32.481	1.812	10.905	.1.00	26.05
ATOM	1400	N	THR	A	485	31.505	0.226	9.645	1.00	28.96
atom	1401	CA	THR	A	485	31,689	0.960	8.394	1.00	26.63
ATOM	1402	CB	THR	A	485	31.124	0.166	7.197	1.00	26.12
ATOM	1403	OG1	THR	A	485	31.753	-1.123	7.132	1.00	24.30
ATOM	1404	CG2	THR	A	485	31.381	0.907	5.898	1.00	23.31
ATOM	1405	C	THR	A	485	30.994	2.318	8.468	1.00	28.90
ATOM	1406	0	THR	A	485	31.583	3.354	8.137	1.00	27.26
ATOM	1407	N	LEU	A	486	29.743	2.310	8.915	1,00	24.76
ATOM	1408	CA	LEU	A	486	28,973	3.537	9.027	1.00	26.19
ATOM ATOM	1409	CB	LEU	A	486	27.567	3.233	9.547	1.00	27.27
ATOM	1410	CG CD1	LEU	A.	486	26.508	2.921	8.486	1.00	23.50
ATOM	1411 1412	CD2	LEU	A	486 486	25.210 26.309	2.550	9.183	1.00	22.03
ATOM	1413	CD2	LEU	A À	486	29.662	4.128 4.519	7.577 9.960	1.00	21.35 27.36
ATOM	1414	0	LEU	A	486	29.745	5.710	9.669	1.00	25.87
ATOM	1415	Ŋ	ILE	A	487	30.151		11.088	1.00	27.88
ATOM	1416	ÇA	ILE	A	487	30.843		12.055	1.00	28.40
ATOM	1417	CB	ILE	A	487	31.203		13.332	1.00	26.74
ATOM	1418	CG2	ILE	A	487	32.255		14.154	1.00	27.54
ATOM	1419	CG1	ILE	A	487	29.937		14.163	1.00	25.93
ATOM	1420	CD1	ILE	A	487	29.237	5.088	14.624	1,00	23.42
ATOM	1421	C	ILE	A	487	32.125	5.393	11,412	1.00	28.89
ATOM	1422	0	ILE .	A	487	32.497	6.554	11.602	1.00	29.85
MOTA	1423	N	HIS	A	488	32.791	4.533	10.649	1.00	29.71
MOTA	1424	CA	HIS	A	488	34.031	4.898	9.967	1.00	34.12
ATOM	1425	CB	HIS	A	488	34.585	3.691	9.207	1.00	36.61
ATOM	1426	CG	HIS	A	488	35.799	3.997	8.385	1.00	42.74
MOTA	1427	CD2	HIS	Α	488	35.970	4.089	7.045	1.00	43.12
MOTA	1428	ND1	HIS	A	488	37.034	4.239	8.946	1.00	43.13
ATOM	1429	CE1	HIS	A	488	37.913	4.466	7.987	1.00	43.40
MOTA	1430	NE2	HIS	A	488	37.293	4.381	6.825	1.00	45.63
MOTA	1431	C	HIS	A	488	33.799	6.051	8.998	1.00	32.74
ATOM	1432	0	HIS	Α	488	34.577	7.004	8.955	1.00	31.06
ATOM	1433	N	LEU	A	489	32.721	5.958	8.223	1.00	33.56
ATOM	1434	CA	LEU	A	489	32.384	6.992	7.258	1.00	30.78
MOTA	1435	CB	LEU	A	489	31,145	6.587		1.00	34.67
MOTA	1436	CG	LEU	A	489	31.310	5.353	5.574	1.00	34.73

MOTA	1437		LEU	A	489	29.945	4.856		1.00	33.21
ATOM'	1438		LĘU	A	489	32.183	5.701		1.00	35.92
MOTA	1439		LEU	A	489	32.124	8.320		1.00	33.97
ATOM	1440	Ð	LEU	A	489	32.587	9.365		1.00	33.22
ATOM	1441		MET	A	490	31.387	8.274	9.058	1.00	31.33
ATOM	1442		MET	A	490	31.056	9.482	9.801	1.00	30.61
ATOM	1443	CB	MET	A	490	30.000	9.161	10.862	1,00	32.34
ATOM	1444	CG	MET	Ą	490	28.607	8.940	10.289	1.00	30.71
ATOM	1445	SD	MET	A	490	27.457	8.247	11.496	1.00	31.14
MOTA	1446	CE	MET	A	490	26.321	7.408	10.418	1.00	30.36
ATOM	1447	C	MET	A	490	32.287	10.108	10.455	1.00	32.22
ATOM	1448	0	MET	A	490	32.412	11.330	10.517	1.00	28.25
MOTA	1449	N	ALA	A	491	33.184	9.262	10.949	1.00	33.81
MOTA	1450	CA	ALA	A	491	34.407	9.730	11.585	1,00	39.92
ATOM	1451	CB	ALA	A	491	35.168	8.554	12.185	1,00	37.22
ATOM	1452	C	ALA	A	491	35.275	10.445		1.00	42,68
ATOM	1453	0	ALA	A	491	35.865	11.487		1.00	45.32
ATOM	1454	N	LYS	A	492	35.339	9.876	9.347	1.00	44.39
ATOM	1455	CA	LYS	A	492	36.122	10.440	8.248	1.00	44.80
ATOM	1456	CB	LYS	A	492	36.136	9.477	7.052	1.00	46.96
ATOM	1457	CG	LYS	A	492	37.490	8.840	6.744	1.00	47.20
ATOM	1458	CD	LYS	A	492	37.390	7.830	5.595	1.00	45.71
ATOM	1459	CE	LYS	A	492	38.631	6.937	5.518	1.00	45.55
ATOM	1460	NZ	LYS	A	492	38.357	5.577	4.948	1.00	36.28
ATOM	1461	C	LYS	A	492	35.534	11.780	7.809	1.00	45.61
ATOM	1462	0	LYS	A	492	36.227	12.604	7.215	1.00	46.18
ATOM	1463	N	ALA	A	493	34,254	11,992	8.100	1.00	43.75
ATOM	1464	CA	ALA	Α	493	33.590	13.238	7.728	1.00	42.42
ATOM	1465	CB	ALA	A	493	32.097	13.001	7.528	1.00	40.92
ATOM	1466	С	ALA	A	493	33.816	14.305	8.796	1.00	41.78
ATOM	1467	0	ALA	A	493	33.277	15.410	8.707	1.00	40.76
ATOM	1468	N	GLY	A	494	34.604	13.960	9.811	1.00	41,01
ATOM	1469	CA	GLY	A	494	34.903	14.904		1.00	41.63
ATOM	1470	C	GLY	A	494	33.857	15.060	11,965	1.00	41,18
ATOM	1471	Q	GLY	A	494	33,916	16.011		1.00	38.22
ATOM	1472	N	LEU	A	495	32.905	14.138		1.00	39.53
ATOM	1473	CA	LEU	A	495	31.876	14.248		1.00	38.91
ATOM	1474	CB	LEU	. A	495	30.713	13.304		1.00	39.20
ATOM	1475	CG	LEU	A	495	29.540	13.901		1.00	40.73
ATOM	1476	CD1	LEU	A	495	29.976	14.170		1.00	37.80
ATOM	1477	CD2	LEU	A	495	28,349	12.943		1.00	40.94
ATOM	1478	C	LEU	A	495	32.461	13,923		1.00	36.01
ATOM	1479	Ø	LEU	A	495	33.347	13.074	14.544	1.00	34.85
ATOM	1480	N	THR	Α	496	31.979	14.604		1.00	37.52
ATOM	1481	CA	THR	A	496	32.462	14.350		1.00	35.45
ATOM	1482	CB	THR	A	496	31.925	15.375		1.00	37.55
ATOM	1483	OG1	THR	A,	496	30.498	15.263		1.00	32.93
ATOM		CG2	THR	A	496	32.315	16.797		1.00	36.16
ATOM	1485	С	THR	A	496	31.933	12.987		1.00	35.67
ATOM	1486	0	THR	Α	496	31.081	12.427		1.00	34.34
ATOM	1487	N	LEU	A	497	32.429	12.452		1.00	34.88
ATOM	1488	CA	LEU	A	497	31.965	11.151		1.00	35.67
ATOM	1489	CB	LEU	A	497	32.689	10.760		1.00	41.10
ATOM	1490	CG	LEU	A	497	33.714	9,640		1.00	45.27
ATOM	1491	CD1	LEU	A	497	34.755	9.692			45.09
ATOM	1492	CD2	LEU	A	497	32.988	8.305		1.00	47.77
ATOM	1493	C	LEU	A	497	30.455	11.198		1.00	33.72
ATOM	1494	ō	LEU	A	497	29.712	10.350		1.00	33.20
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MOTA	1495	N	GLN	A	498	30.006	12.202 19.773	1.00	30.82
ATOM	1496		gln	A	498	28.586	12.348 20.062	1.00	31.47
ATOM	1497		GLN	A	498	28.344	13.566 20.951	1.00	30.51
ATOM	1498		GLN	A	498	26.894	13.796 21.341	1.00	34.38
MOTA	1499		GLN	A	498	26.712	15.130 22.015	1.00	38.60
ATOM	1500		GLN	A	498	27.363	16.112 21.686		42.92
ATOM	1501	NE2	GLN	A	498	25.809	15.176 23.008	1.00	40.02
ATOM	1502	C	GLN	A	498	27.776	12.476 18.773	1.00	30.47
MOTA	1503	Ó	GLN	A	498	26.682	11.927 18.665	1.00	30.85
ATOM	1504	N	GLN	A	499	28.311	13.196 17.793	1.00	29.52
MOTA	1505	CA	GLN	A	499	27.603	13.362 16.524	1.00	30.24
ATOM	1506	CB	GLN	A	499	28.292	14.420.15.661	1.00	30.20
ATOM	1507	CG	GLN	A	499	28.135	15.840 16.191	1.00	31.60
ATOM ATOM	1508 1509	CD OE1	GLN	A	499	28.930	16.849 15.389	1.00	31.61
ATOM	1510	NE2	GLN GLN	A	499	29.956	16.518 14.795	1.00	30.66
ATOM	1511	C	GLN	A A	499 499	28.457 27.529	18.089 15.364 12.047 15.753	1.00	34.17
ATOM	1512	0	GLN	A	499	27.529 26.567	11.793 15.032	1.00	29.40
ATOM	1513	N	GLN	A	500	28.550	11.793 15.032	1.00	30.04
ATOM	1514	CA	GLN	A	500	28.550	9.937 15.216	1.00	25.67 29.30
ATOM	1515	CB	GLN	A	500	29.933	9.276 15.406	1.00	31.52
MOTA	1516	CG	GLN	A	500	31.012	9.839 14.508	1.00	33.05
ATOM	1517	CD	GLN	A	500	32.371	9.370 14.930	1.00	34.84
MOTA	1518	OE1	GLN	A	500	32.612	8.194 15.141	1.00	36.47
MOTA	1519	NE2	GLN	A	500	33.301	10.324 15.082	1.00	38.25
MOTA	1520	C	GLN	A	500	27.459	9.017 15.711	1.00	27.98
ATOM	1521	0	GLN	A	500	26.700	8.469 14.908	1.00	24.84
ATOM	1522	N	HIS	A	501	27.357	8.864 17.029	1.00	26.20
MOTA	1523	CA	HIS	Α	501	26.327	8.021 17.631	1.00	27.63
ATOM	1524	CB	HIS	A	501	26.535	7.919 19.145	1.00	27.97
ATOM	1525	CG	HIS	A	501	27.892	7.420 19.535	1.00	34.27
MOTA	1526	CD2	HIS	A	501	28.726	6.540 18.931	1.00	36.10
ATOM	1527	ND1	HIS	Α	501	28.541	7.844 20.676	1.00	31.81
ATOM	1528	CE1	HIS	A	501	29.716	7.244 20.758	1.00	34.89
ATOM	1529	NE2	HIS	A	501	29.854	6.448 19.712	1.00	37.46
ATOM ATOM	1530	C	HIS	A	501	24.935	8.572 17.348	1.00	24.93
ATOM	1531 1532	O N	HIS GLN	A A	501 502	23.998	7.815 17.107	1.00	26.73
ATOM	1533	CA	GLN	A	502	24.796 23.504	9.892 17.379 10.498 17.119	1.00	22.79
ATOM	1534	CB	GLN	A	502	23.554	12.006 17.371	1.00	26.14
ATOM	1535	CG	GLN	A	502	23.460	12.378 18.848	1.00	22.36 26.19
ATOM	1536	CD	GLN	A	502	23.589	13.875 19,089	1.00	28.67
ATOM	1537	OE1	GLN	A	502	23.632	14.663 18.149	1.00	28.40
ATOM	1538	NE2	GLN	Ą	502	23.651	14.268 20.355	1.00	24.72
ATOM	1539	C	GLN	A	502	23.056	10.221 15.685	1.00	26.19
ATOM	1540	0	GLN	A	502	21.913	9.822 15.453	1.00	24.09
ATOM	1541	N	ARG	A	503	23.955	10.429 14.727	1.00	24.88
ATOM	1542	CA	ARG	A	503	23.630	10.196 13.326	1.00	25.25
AŢOM	1543	CB	ARG	Α	503	24.772	10.668 12.418	1.00	27.63
AŢOM	1544	CG	ARG	A	503	24.432	10.563 10.932	1.00	28.75
ATOM	1545	CD	ARG	A	503	25.479	11.222 10.056	1.00	27.72
ATOM	1546	NE	ARG	A	503	25.072	11.214 8.654	1.00	29.35
MOTA	1547	CZ	ARG	Α	503	24.279	12.126 8.105	1.00	25.84
ATOM	1548	NH1	ARG	Α	503	23.804	13.120 8.840	1.00	27.35
ATOM	1549	NH2	ARG	A	503	23.962	12.044 6.820	1.00	30.63
ATOM	1550	C	ARG	Α	503	23.347	8.716 13.065	1.00	24.53
ATOM	1551	0	ARG	A	503	22.425	8.375 12.321	1.00	25.90
ATOM	1552	N	LEU	A	504	24.143	7.841 13.672	1.00	23.00

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ATOM	1553	CA	LEU	A	504	23.953	6 106	13.496	1.00	22.60
ATOM	1554	CB	LEU	A	504	24.971		14.323	1.00	25.43
ATOM	1555	CG	LEU	A	504	24.781		14.344	1.00	25.23
MOTA	1556	CD1	LEU	A	504	25.166		12.991	1.00	28.52
ATOM	1557	CD2	LEU	A	504	25.627		15.444	1.00	22.14
MOTA	1558	C	LEU	A	504	22.541		13.934	1.00	22.84
ATOM	1559	0	LEU	A	504	21.846		13.245	1.00	21.51
MOTA	1560	N	ALA	A	505	22.120		15.083	1.00	20.16
ATOM	1561	CA	ALA	A	505	20.784	6.262	15.585	1.00	21.08
ATOM	1562	CB	ALA	A	505	20.605	6.868	16.980	1.00	23,57
atom	1563	C	ALA	A	505	19.738	6.832	14.628	1.00	20.20
ATOM	1564	0	ALA	A	505	18.754	6.164	14.293	1.00	17.31
MOTA			GLN	A	506	19.954		14.184	1.00	22.11
MOTA	1566		GLN	A	506	19.013		13.277	1.00	21.70
MOTA	1567		GLN	A	506	19.502	10.111		1.00	22.26
ATOM			GLN	Α	506	19.240	11.158		1.00	25.84
ATOM			GLN	A	506	20.187	12.333		1.00	32.88
ATOM ATOM			GLN	A	506	20.704	12.614		1.00	31.23
ATOM			GLN GLN	A	506 506	20.423	13.025		1,00	32.97
ATOM			GLN	A A	506 506	18.813 17.684		12.016	1.00	23.57
ATOM			LEU	A	507	19.905		11.550 11.474	1.00	21.83
ATOM			LEU	A	507	19.827		10.263	1.00	19.98 22.03
ATOM			LEU	A	507	21.231	6.244	9.725	1.00	23.02
ATOM			LEU	A	507	22.026	7.457	9.225	1.00	25.80
MOTA	1578		LEU	A	507	23.371	6,994	8.713	1.00	27.67
MOTA	1579	CD2	LEU	A	507	21.264	8.176	8.130	1.00	25,62
MOTA		C :	LEU -	A	507	19.090	5,219	10.496	1.00	22.35
MOTA			LEU	A	507	18.242	4,825	9.695	1.00	19.33
ATOM			LEU	A,	508	19.402		11.592	1.00	21.29
ATOM			LEU	A	508	18.755		11.881	1.00	20.72
ATOM			LEU	A	508	19.501		13.001	1.00	22.29
ATOM			LEU	A	508	20.977		12.678	1.00	24.70
ATOM ATOM			LEU LEU	A	508	21.642		13.814	1.00	21.37
ATOM			LEU	A A	508 508	21.095 17.279	3.396	11.367	1.00	27.88
ATOM			LEU	A	508	16.498	2.478	· ·	1.00	19.14
ATOM			LEU	A	509	16.895	4.530	•	1.00	17.80 19.23
ATOM			LEU	A	509	15.495	4.747		1.00	20.14
ATOM				A	509	15.347	6.030		1.00	20.28
ATOM	1593			A	509	15.710	5.858		1.00	21.35
ATOM	1594	CD1 1	LEU	A ·	509	15.354	7.106		1.00	19.29
ATOM	1595 (CD2 1	LEU	A	509	14.989	4.656		1.00	20.84
ATOM		C I	LEU	A	509	14.681	4.841	11.885	1.00	21.69
ATOM				A	509	13.493	4.514	11.854	1.00	22.40
ATOM				A	510	15.343	5.270	10.815	1.00	20.22
ATOM				A	510	14.710	5.397		1.00	20.40
MOTA				A	510	15.720	5.946		1.00	28.34
ATOM				A	510	15.208	5.710		1.00	32.54
ATOM				A	510	15.965	7.438	8.696	1.00	28.23
ATOM				A	510	14.789	8,189		1.00	33.16
ATOM ATOM			-	A n	510	14.210	4.025	9.049	1.00	23.21
ATOM		_		A A	510 511	13.120	3.906	8.474	1.00	21.16
ATOM				A A	511	14.998 14.633	2.989 1.634	9.323	1.00	18.38
ATOM				A A	511	15.754	0.656	8.917 9.267	1.00	20.10
ATOM				A A	511	17.128	1.022	9.267 8.692	1.00	21.69 26.03
ATOM				A	511	18.024	-0.206	8.724	1.00	22.68
	•		-	-	-					

MOTA	1611	CD2	LEU	A	511	16.996	1.544	7.267	1.00	26,00
ATOM	1612		LEU	A	511	13.326	1.181	9.543	1.00	18.51
MOTA	1613	0	LEU	A	511	12.663	0.283	9.025	1.00	17.40
ATOM	1614	N	SER	A	512	12.963	1.799	10.664	1.00	18.68
MOTA	1615	CA	SER	A	512	11.718	1.471	11.331	1.00	18.67
ATOM	1616	CB	SER	A	512	11.661	2.117	12.720	1.00	18.58
ATOM	1617	OG	SER	A	512	10.315	2.229	13.165	1.00	27.92
ATOM	1618	C	SER	A	512	10.572	1.994	10.464	1.00	18.43
ATOM	1619	0	SER	A	512	9.584	1.296	10.236	1.00	13.91
ATOM	1620	N	HIS	· A	513	10.713	3.228		1.00	18.95
MOTA	1621	CA	HIS	A	513	9.698	3.831		1.00	20.82
MOTA	1622	CB	HIS	A	513	10.013	5.315		1.00	24.36
ATOM	1623	CG	HIS	A	513	9.923		10.136	1.00	32.13
ATOM	1624	CD2	HIS	A	513	8.863		10.734	1.00	35.29
MOTA	1625	ND1	HIS	A	513	11.010		10.949	1.00	35.00
ATOM	1626	CE1	HIS	A	513	10.624		11.995	1.00	34.67
ATOM	1627	NE2	HIS	A	513	9.326		11.889	1.00	35.82
ATOM	1628	C	HIS	A	513	9.650	3.079	7.790	1.00	19.08
MOTA	1629	Ö	HIS	A	513	8.575	2.863	7.220	1.00	21.20
ATOM	1630	N	ILE	A	514	10.809	2.662	7.297	1.00	15.58
ATOM	1631	CA	ILE	A	514	10.849	1.921	6.038	1.00	16.48
ATOM	1632	CB	ILE	A	514	12.312	1.678	5.576	1.00	20.09
MOTA	1633	CG2	ILE	A	514	12.349	0.602	4.499	1.00	19.55
ATOM	1634	CG1	ILE	A	514	12.891	2.986	5.019	1.00	22.62
ATOM	1635	CD1	ILE	A	514	14,393	2.992	4.874	1.00	27.34
ATOM	1636	C	ILE	Α	514	10.112	0.590	6.210	1.00	16.40
ATOM	1637	0	ILE	A	514		0.164	5.328	1.00	17.91
ATOM	1638	Ŋ	ARG	A	515	10.301	-0.071	7.347	1.00	18.20
ATOM	1639	CA	ARG	A	515	9.585	-1.327	7.564	1.00	18.05
ATOM	1640	CB	ARG	A	515	9.984	-1.980	8.889	1.00	18.36
ATOM	1641	CG	ARG	A	515	9.173	-3.237	9.213	1.00	17.84
ATOM	1642	CD	ARG	A	515	9.823	-4.470	8.606	1.00	17.94
ATOM	1643	NE	ARG	A	515	11.038	-4.813	9.334	1.00	26.96
MOTA	1644	CZ	ARG	A	515	11.406	-6.051	9.641	1.00	25.13
ATOM	1645	NH1	ARG	A	515	10.654	-7.080	9.281	1.00	23.49
ATOM	1646	NH2	ARG	A	515	12.511	-6.254		1.00	32.16
ATOM	1647	С	ARG	A	515	8.089	-1,020	7.594	1.00	18.29
ATOM	1648	0	ARG	A	515	7.275	-1.759	7.038	1.00	16.22
ATOM	1649	N	HIS	A	516	7.726	0.085	8.237	1.00	19.33
MOTA	1650	CA	HIS	A	516	6.317	0.441	8.330	1.00	17,78
ATOM	1651	CB	HIS	A	516	6.126	1.702	9.166	1.00	16.84
ATOM	1652	CG	HIS	A	516	4.692	2.101	9.312	1.00	18.16
ATOM	1653	CD2	HIS	A	516	3.967	3,061	8.691	1.00	21.17
ATOM	1654	ND1	HIS	Α	516	3.830		10.180	1.00	20.70
ATOM	1655	CE1	HIS	A	516			10.089	1.00	21.52
ATOM	1656	NE2	HIS	A	516	2.689	2.992	9.191	1.00	20.16
ATOM	1657	C	HIS	A	516	5.708	0.659	6.954	1.00	16.63
ATOM	1658	0	HIS	A	516	4.598	0.216	6.689	1.00	18.58
MOTA	1659	N	MET	A	517	6.438	1.334	6.073	1.00	15.29
ATOM	1660	CA	MET	A	517	5.925	1.589	4.730	1.00	16.58
ATOM	1661	CB	MET	A	517	6.837	2.576	4.002	1.00	18.66
ATOM	1662	CG	MET	A	517	6.805	3.978	4.631	1.00	16.88
ATOM	1663	SD	MET	A	517	7.670	5.243	3.701	1.00	24.08
ATOM	1664	CE	MET	A	517	9.390	4.777	3.701	1.00	14.30
ATOM	1665	C	MET	A	517					
ATOM	1666	0	MET	A	517	5.773 4.791	0.289	3.940 3.224	1.00	17.86
ATOM	1667	N	SER	A	518	6.741	-0.610	4.086	1.00	18.25
ATOM	1668	CA	SER	A	518	6.741				17.43
WT OL1	1900	ÇA.	JER	-	210	0.03/	-1.896	3.403	1.00	18.40

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	MOTA	1669	CB	SER	מ	EΊQ	7 97 <i>4</i>	2 505	9	1 88	16 977	
	ATOM	1679		ser Ser	A A	518 518	7.974 7.834	-2.695 -4.030	3,680 3,227	1.00	16.77 24.23	
	ATOM	1671		SER	A	518	7.634 5.476	-2.695	3.954	1.00	17,91	•
	atom	1672		SER	A	518	4.788	-3.295	3,030	1.00	18.97	1
	ATOM	1673		asn	A	519	5.204	-2.697	5.159	1.00	21.82	1
	ATOM	1674		ASN	A	519	4.047	-3.418	5.696	1.00	21.99	1
	ATOM	1675		ASN	A	519	3.957	-3.257	7.216	1.00	23.24	•
	ATOM	1676		asn	A	519	5.046	-4.011	7.957	1.00	31.14	
	ATOM	1677		ASN	A	519	5.585	-4.999	7.461	1.00	32.50	1
	ATOM	1678		ASN	A	519	5.368	-3.545	9.163	1.00	29,10	•
	ATOM	1679		asn	A	519	2.761	-2.871	5.079	1.60	23.76	
	ATOM	1680		ASN	A	519	1.902	-3.632	4.631	1.00	24.48	
	AŢOM	1681	N	LYS	A	520	2.627	-1.548	5.078	1.00	20.58	
	MOTA	1682	CA	LYS	A	520	1.449	-0.900	4.512	1.00	25.49	
	ATOM	1683		LYS	A	520	1.484	0.607	4.786	1.00	24.73	
	ATOM	1684		LYS	A	520	1.512	0.996	6.264	1.00	32.31	
	ATOM	1685		LYS	A	520	0.656	0.080	7,133	1.00	37.11	
	ATOM	1686	CE	LYS	A	520	-0.787	0.547	7.181	1.00	41.56	
	ATOM	1687	NZ	LYS	A	520	-1.560	-0.134	8.261	1.00	42.66	
	ATOM	1688	Ċ	LYS	A	520	1.380	-1.144	3.005	1.00	25.40	
	ATOM	1689	Õ	LYS	A	520	0.316	-1.436	2.467	1.00	26.44	
	ATOM	1690	N	GLY	A	521	2.520	-1.021	2.332	1.00	22.88	
	ATOM	1691	CA	GLY	A	521	2.561	-1.236	0.897	1.00	21.53	
	MOTA	1692		GLY	A	521	2.177	-2.655	0.536	1.00	24.79	
	MOTA	1693	0	GLY	A	521	1.426		-0.413	1.00	25.71	
	ATOM	1694	N	MET	A	522	2,696	-3.619	1.290	1.00	22.75	
	ATOM	1695	CA	MET	A	522	2.393	-5,027	1.058	1.00	23.40	•
•	ATOM	1696	CB	MET	A	522	3.170	-5.898	2.042	1.00	25.74	
	ATOM	1697	CG	MET	A	522	3.396	-7.308	1.559	1.00	31.06	
	ATOM	1698	SD	MET	A	522	4.572	-7.352	0.202	1.00	34.06	
	ATOM	1699	CE	MET	Α	522	6.125	-7.229	1.113	1.00	29,28	
	ATOM	1700	C	MET	A	522	0.893	-5.281	1.218	1.00	26.49	
	ATOM	1701	Ö	MET	A	522	0.268	-5.920	0.361	1.00	25.47	
	ATOM		N	GLU	A	523	0.321	-4.790	2.318	1.00	24.95	
	ATOM	1703	CA	GLU	A	523	-1.110	-4.954	2.566	1.00	27,15	l
	ATOM		CB	GLU	A	523	-1.555	-4.206	3.835	1,00	31.08	l
	atom	1705	CG	GLU	A	523	-0.830	-4.564	5.124	1.00	38.93	l
	ATOM	1706	CD	GLU	A	523	-1.153	-3.585	6.258	1.00	46.90	
	ATOM	1707		GLU	A	523	-2.225	-2.938	6.200	1.00	47.40	l
	ATOM	1708		ĢLU	A	523	-0.337	-3.460	7.202	1.00	47.39	
	ATOM	1709		GLU	A	523	-1.872	-4.368	1.381	1.00	26.10	l
	ATOM	1710		GLU	A	523	-2.817	-4.964	0.882	1.00	24.25	l
	ATOM	1711		HIS	A	524	-1.449	-3.182	0.940	1.00	24.74	
	ATOM		CA	HIS	A	524	-2.093	-2.505		1.00	26.17	
	ATOM	1713	CB	HIS	A	524	-1.481	-1.125		1.00	24.64	
	ATOM		CG	HIS	A	524	-2.233	-0.278		1.00	30.59	
	ATOM		CD2	HIS	Α	524	-3.227	0.624		1.00	32.15	
	ATOM		ND1	HIS	A	524	-2.008	-0.332		1.00	27.46	
	ATOM	1717		HIS	A	524	-2.829	0.502		1.00	34.58	
	ATOM		NE2	HIS	A	524	-3.580	1.094		1.00	30.50	
	ATOM	1719		HIS	A	524	-1.996	-3,294		1.00	28.06	
	ATOM	1720		HIS	A	524	-2.976	-3.419		1.00	29.81	
	ATOM	1721		LEU	A	525	-0.811	-3.824		1.00	27.07	
	ATOM		CA	LEU	A	525	-0.594	-4.601		1.00	29.30	
	ATOM		CB	LEU	A	525	0.865	-5.039		1.00	26.39	
	ATOM	1724		LEU	A	525	1.307	-5.765		1.00	29.34	
	ATOM	1725		LEU	A	525	0.734	-5.076		1.00	29.61	
-	ATOM	1726		LEU	A	525	2.829	-5.769		1.00	29.22	
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	B 69014	1 708	_	TEST		E 0 E	1 407
	mota Mota	1727 1728	0	Leu Leu	A A	525 525	-1.497 -5.822 -2.950 1.00 31.67 - -2.128 -6.133 -3.957 1.00 32.45
	MOTA	1729	N .	TYR	A	525 526	-2.128 -6.133 -3,957 1.60 32.45 -1.559 -6.512 -1.814 1.60 36.14
	ATOM	1730	CA	TYR	A	526	-2.397 -7.698 -1.696 1.00 40.36
	ATOM	1731	CB	TYR	A	526	-2.221 -8.350 -0.324 1.00 45.27
	MOTA	1732	CG	TYR	A	526	-2.849 -9.722 -0.229 1.00 50.62
	ATOM	1733	CD1	TYR	A	526	-2.114 -10.867 -0.537 1.00 54.55
	atom	1734	CE1	TYR	A	526	-2.698 -12.136 -0.482 1.00 57.27
	MOTA	1735	CD2	TYR	A	526	-4.188 -9.876 0.142 1.00 53.48
	ATOM	1736	CE2	TYR	A	526	-4.781 -11.141 0,201 1.00 55.93
	MOTA MOTA	1737 1738	OH	TYR TYR	A A	526 526	-4.029 -12.264 -0.113 1.00 56.60 -4.603 -13.515 -0.063 1.00 60.70
	ATOM	1739	C	TYR	A	526	-4.603 -13.515 -0.063 1.00 60.70 -3.852 -7.298 -1.893 1.00 42.83
	ATOM	1740	Ö	TYR	A	526	-4.673 -8.094 -2.349 1.00 43.49
•	ATOM	1741	N	SER	A	527	-4.158 -6.055 -1.543 1.00 41.55
	MOTA	1742	CA	SER	A	527	-5.503 -5.523 -1.686 1.00 44.04
	ATOM	1743	CB	SER	A	527	-5.606 -4.169 -0.979 1.00 43.47
	ATOM	1744	OG	SER	A	527	-6.954 -3.789 -0.786 1.00 47.51
	MOTA	1745	C	SER	A	527	-5.817 -5.356 -3.172 1.00 44.18
	ATOM ATOM	1746 1747	O N	SER MET	A A	527 528	-6.883 -5.757 -3.642 1.00 44.88 -4.883 -4.755 -3.901 1.00 41.79
	ATOM	1748	CA	MET	A	528	-4.883 -4.755 -3.901 1.00 41.79 -5.047 -4.536 -5.331 1.00 44.04
	ATOM	1749	CB	MET	A	528	-3.898 -3.679 -5.870 1.00 44.78
	ATOM	1750	CG	MET	A	528	-3.965 -2.206 -5.468 1.00 45.37
	ATOM	1751	ŞD	MET	· A	528	-5.652 -1.598 -5.273 1.00 51.83
	ATOM	1752	CE	MET	A	528	-5.553 -0.004 -6.044 1.00 46.61
	ATOM	1,753	C	MET	A	528	-5.087 -5.871 -6.071 1.00 44.29
	ATOM ATOM	1754 1755	И	MET LYS	A A	528 529	-5.689 -5.979 -7.137 1.00 44.02 -4.443 -6.883 -5.499 1.00 46.78
	ATOM	1756	CA	LYS	Ā	529	-4.413 -8.213 -6.099 1.00 51.28
	ATOM	1757	CB	LYS	A	529	-3.550 -9.158 -5.261 1.00 50.87
	ATOM	1758	CG	LYS	A	529	-2.798 -10.204 -6.071 1.00 50.55
	MOTA	1759		LYS	A	529	-3.548 -11.520 -6.104 1.00 51.25
	ATOM	1760	CE	LYS	A	529	-2.616 -12.694 -5.856 1.00 53.22
	ATOM ATOM	1761 1762	NZ	LYS	A	529 520	-2.420 -12.954 -4.402 1.00 53.22
	ATOM	1763	С О .	LYS LYS	A A	529 529	-5.829 -8.768 -6.182 1.00 54.27 -6.325 -9.069 -7.266 1.00 55.50
	ATOM		N	CYS	A	530	-6.472 -8.901 -5.027 1.00 56.71
	АТОМ	1765	CA	CYS	A	530	-7.833 -9.416 -4.961 1.00 58.35
	MOTA	1766	CB	CYS	A	530	-8.333 -9.380 -3,517 1.00 59.78
	ATOM	1767	SG	CYS	A	530	-7.289 -10.304 -2.358 1.00 63.19
	ATOM	1768	C	CYS	A	530	-8.766 -8.609 -5.858 1.00 59.36
	MOTA MOTA	1769 1770		CYS	A	530 531	-9.644 -9.169 -6.514 1.00 59.52
	ATOM		N CA	LYS LYS	A A	531 531	-8.569 -7.293 -5.888 1.00 59.24 -9.390 -6.411 -6.713 1.00 60,14
	MOTA	1772		LYS	A	531 531	-9.158 -4.952 -6.317 1.00 58.92
•	MOTA	1773		LYS	A	531	-9.073 -6.615 -8.195 1.00 61.48
	MOTA	1774		LYS	A	531	-9.618 -5.928 -9.061 1.00 61.74
	MOTA		N	ASN	A	532	-8.179 -7.561 -8.474 1.00 61.65
	ATOM		CA	ASN	A	532	-7.783 -7.890 -9.840 1.00 61.60
	ATOM		CB	ASN	A	532	-8.966 -8.518-10.581 1.00 62.28
•	MOTA MOTA	1778 1779	CG OD1	ASN	A	532	-8.750 -9.985-10.878 1.00 64.66
	ATOM ATOM	1779		asn Asn	A A	532 532	-8.344 -10.352-11.983 1.00 67.08 -9.016 -10.836 -9.891 1.00 62.68
	ATOM	1781		ASN	A	532 532	-7.247 -6.710-10.648 1.00 59.75
	ATOM		ō	ASN	A	532	-7.487 -6.615-11.850 1.00 57.50
	MOTA	1783	N	VAL	A	533	-6.507 -5.822 -9.992 1.00 59.39
	ATOM	1784	CA	VAL	A	533	-5.954 -4.656-10.669 1.00 58.22

MOTA	1785	CB	VAL	A	533	-6.223	-3.371 -9.865	1.00	59.20
Mota	1786	CG1	VAL	A	533	-6.181	-2.163-10.785	1.00	59.21
ATOM	1787	CG2	VAL	A	533	-7.574	-3.467 -9.172	1,00	59.57
ATOM	1788	С	VAL	A	533	-4.452	-4.767-10.907	1.00	57.86
Mota	1789	0	VAL	A	533	-3.846	-3.874-11.499	1.00	60.56
Mota	1790	N	VAL	A	534	-3.852	-5.863-10.451	1.00	56.03
MOTA	1791	CA	VAL	A	534	-2.417	-6.063-10.621	1.00	54.11
ATOM	1792	CB	VAL	A	534	-1.767	-6.632 -9.341	1.00	54.02
MOTA	1793	CG1	VAL	A	534	-0.300	-6.950 -9.601	1.00	52.37
MOTA	1794	CG2	VAL	A	534	~1.900	-5.635 -8.200	1.00	55,70
MOTA	1795	C	VAL	A	534	-2.089	-7.008-11.770	1.00	54.31
ATOM	1796	Ø	VAL	A	534	-2.519	-8.164-11.780	1.00	51.66
MOTA	1797	N	PRO	A	535	-1.315	-6.527-12.755	1.60	53.54
ATOM	1798	CD	PRO	A	535	-0.749	-5.172-12.874	1.00	54.28
ATOM	1799	CA	PRO	A	535	-0.949	-7.373-13.893	1.00	53.24
MOTA	1800	CB	PRO	A	535	0.011	-6.500-14.697	1.00	52.71
ATOM	1801	CG	PRO	A	535	-0.353	-5.102-14.319	1.00	53.19
ATOM	1802	C	PRO	A	535	-0,296	-8.664-13.411	1.00	54.25
ATOM	1803	0	PRO	A	535	0.121	-8.768-12.254	1.00	54.56
ATOM	1804	N	LEU	A	536	-0.203	-9.645-14.299	1.00	53.63
MOTA	1805	CA	LEU	A	536	0.382	-10.926-13.937	1.00	53.11
ATOM	1806	CB	LEU	Α	536	-0.250	-12.046-14.763	1,00	51.88
MOTA	1807	CG	LEU	A	536	-0.686	-13.256-13.938	1.00	51.83
MOTA	1808	CD1	LEU	A	536	-1.953	-12.917-13.173	1.00	49.51
ATOM	1809	CD2	LEU	Α	536	-0.905	-14,449-14.854	1.00	53.43
ATOM	1810	C	LEU	A	536	1.895	-10.990-14.081	1.00	52.58
ATOM	1811	0	LEU	A	536	2.414	-11,501-15,075	1.00	55.33
MOTA	1812	N	TYR	A	537	2.601	-10.462-13.087	1.00	48.72
ATOM	1813	CA	TYR	A	537	4.057	-10.501-13.093	1,00	44,22
ATOM	1814	CB	TYR	A	537	4.627	-9.134-12.709	1.00	44.52
MOTA	1815	CG	TYR	A	537	4.331	-8,053-13.731	1.00	45,18
ATOM	1816	CD1	TYR	A	537	3.623	-6.905-13.376	1.00	43,77
MOTA	1817	CE1	TYR	Α	537	3.334	-5.915-14.317	1.00	45.23
ATOM	1818	CD2	TYR	A	537	4.747	-8.187-15.058	1.00	46.91
MOTA	1819	CE2	TYR	A	537	4.462	-7.202-16,008	1.00	43.93
ATOM	1820	CZ	TYR	A	537	3,757	-6,071-15.631	1.00	46.70
MOTA	1821	OH	TYR	A	537	3.472	-5.097-16.565	1.00	48.35
atom	1822	C	TYR	A	537		-11.562-12.056	1.00	41.29
ATOM	1823	0	TYR	A	537		-11.319-10,856	1.00	41.82
ATOM	1824	N	ASP	A	538	4.748	-12.748-12.540	1.00	40.34
MOTA	1825	CA	ASP	A	538	5.055	-13.896-11.691	1.00	38.84
ATOM	1826	СВ	ASP	A	538	5.594	-15.037-12.554	1.00	43.47
ATOM	1827	CG	ASP	A	538	4.571	-15.531-13.566	1,00	47.67
ATOM	1828	OD1	ASP	A	538	4.931	-16.373-14.416	1.00	49.33
ATOM	1829	OD2	ASP	A	538		-15.073-13.511	1.00	48.07
ATOM	1830	C	ASP	A	538	5.991	-13.676-10.508	1.00	37.28
ATOM	1831	0	ASP	Α	538	5.620	-13.964 -9.371	1.00	38.55
ATOM	1832	N	LEU	Α	539		-13.200-10.766	1.00	33.83
MOTA	1833	CA	LEU	A	539	8.155	-12.959 -9.692	1.00	32.80
ATOM	1834	CB	LEU	A	539	9.419		1.00	32.78
ATOM	1835	CG	LEU	A	539	10.561	-12.031 -9.292	1.00	30.93
MOTA	1836	CD1	LEU	A	539		-13.280 -8.492	1.00	33,81
ATOM	1837	CD2	LEU	A	539	11.758	-11,538-10,077	1.00	25.92
ATOM	1838	C	LEU	A	539	7.558	-12.050 -8.614	1.00	31.85
ATOM	1839	0	LEU	A	539	7.590	-12.367 -7.423	1.00	25.63
ATOM	1840	N	LEU	A	540	7.011	-10.917 -9.042	1.00	32.07
ATOM	1841	CA	LEU	A	540	6.411	-9.976 -8.111	1.00	31.03
MOTA	1842	CB	LEU	A	540	5.792	-B.800 -8.8 61	1.00	30.56

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MOTA	1843		LEU	A	540	5.124	-7.774	-7.945	1.00	31.12
MOTA	1844		LEU	A	540	6.092	-7.357	-6.838	1.00	29.76
MOTA	1845	CD2	LEU	A	540	4.693	-6.572	-8.762	1.00	30.85
MOTA	1846	C	LEU	A	540	5.337	-10.660	-7.282	1.00	34.55
ATOM	1847	0	LEU	A	540	5.316	-10.522	-6.063	1.00	31.60
ATOM	1848	N	LEU	A	541	4.446	-11.388	-7.941	1.00	35.64
MOTA	1849	CA	LEU	Α	541		-12.101		1.00	37.84
ATOM	1850	CB	LEU	A	541		-12.771		1.00	38.49
ATOM	1851	CG	LEU	A	541		-11.932		1.00	39.80
ATOM	1852		LEU	A	541		-11.476	•	1.00	40.02
ATOM	1853		LEU	A	541		-10.733		1.00	40.48
ATOM	1854		LEU	A	541		-13.147		1.00	40.10
ATOM	1855		LEU	A	541		-13.254			
ATOM	1856		GLU		542				1,00	42.72
ATOM	1857		GLU	A			-13.915		1.00	38.45
				A	542		-14.932		1.00	39.59
ATOM	1858	CB	GLU	A	542		-15.566		1.00	41,73
ATOM	1859	CG	GLU	A	542		-16.327		1.00	48.34
ATOM	1860	CD	GLU	A.	542		-17,747	•	1.00	52.57
ATOM	1861	OE1	GLU	A	542		-17.961		1.00	52.70
ATOM	1862	OE2	GLU	A	542		-18.647		1.00	53.69
ATOM	1863	С	GLU	A	542		-14.299		1.00	39.94
ATOM	1864	0	GLU	A,	542		-14.710		1.00	40.99
MOTA	1865	N	MET	A	543	6.844	-13.287	-4,663	1.00	38.29
MOTA	1866	CA	MET	A	543	7.380	-12.580	-3.503	1.00	38.11
MOTA	1867	CB	MET	A	543	8.242	-11.408	-3.963	1.00	37.34
ATOM	1868	CG	MET	A	543	9.311	-11.797	-4.953	1.00	40.59
ATOM	1869	SD	MET	A	543	10.829	-12.223	-4.114	1.00	45.64
MOTA	1870	CE	MET	A	543	12.014	-11.399	-5.151	1.00	42.61
ATOM	1871	C	MET	A	543	6.287	-12.064	-2.581	1.00	37.94
ATOM	1872	0	MET	A	543	6.413	-12.127	-1.358	1.00	39.20
MOTA	1873	N	LEU	A	544	5.218	-11.544	-3.175	1.00	39.44
ATOM	1874	CA	LEU	A	544	4.100	-11.013	-2.408	1.00	40.91
ATOM	1875	CB	LEU	A	544		-10.344		1.00	39.88
ATOM	1876	CG	LEU	A	544	1.775	-9.905		1.00	42.70
ATOM	1877	CD1	LEU	A	544	2.060	-8.886		1.00	37.35
ATOM	1878	CD2	LEU	Α	544	0.854	-9.317		1.00	38.47
ATOM	1879	C	LEU	A	544		-12.120		1.00	42.83
ATOM	1880	0	LEU	A	544		-11.899		1.00	42.73
ATOM	1881	N	ASP	A	545		-13.313		1.00	46.32
ATOM	1882	CA	ASP	A	545		-14.456		1.00	50.65
ATOM	1883	CB	ASP	Α	545		-15.617		1.00	53.67
ATOM	1884	CG	ASP	A	545		-15,278		1.00	57.35
ATOM	1885	OD1	ASP	A	545		-14.568		1,00	59.99
ATOM	1886	OD2	ASP	A						
ATOM	1887		ASP		545 545		-15.718		1.00	59.68
				A	545		-14.898		1.00	50.74
ATOM	1888	0	ASP	A	545		-15.388	0.657	1.00	49.39
ATOM	1889	N	ALA	A	546		-14.723		1.00	51.82
ATOM	1890	CA	ALA	Α	546		-15.095	0.702	1.00	53.12
ATOM	1891	CB	ALA	A	546		-14.678	0.395	1.00	53.19
ATOM	1892	C	ALA	A	546		-14.424	1.987	1.00	54.67
ATOM	1893	0	ALA	A	546		-14.940	3.085	1.00	52.32
ATOM		N	HIS	A	547		-13.270	1.838	1.00	56.66
ATOM	1895	CA	HIS	A	547		-12.520	2.978	1.00	59.19
MOTA	1896	CB	HIS	A	547	4.144	-11.017	2.684	1.00	56.70
MOTA	1897	CG	HIS	A	547	5.489	-10.394	2.896	1.00	54.64
ATOM	1898	CD2	HIS	Α	547	6.644	-10.506	2.199	1.00	53.92
MOTA	1899	NDl	HIS	Α	547	5.748	-9.514	3.925	1.00	52.17
MOTA	1900	CE1	HIS	A	547	7.004	-9.11İ	3.853	1.00	52.16

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ATOM	1901	NE2	HIS	A	547	7.570	-9.698 2.814	1.00	51.90	
ATOM	1902	E	HIS	A	547	2.668		1.00	62.77	
ATOM	1903	0	HIS	A	547	1.842		1.00	63.24	
ATOM	1904	N	ARG	A	548	2.381		1.00	68.37	
ATOM	1905	CA	ARG	A	548	1.053	-14.758 3.411	1.00	72.75	
MOTA	1906	CB	ARG	A	548	0.243	-14.864 2.113	1.00	73.73	
ATOM	1907	CG	ARG	A	548	-1.149	-14.243 2.186	1.00	74.04	
MOTA	1908	CD	ARG	A	548	-1.081	-12.728 2.297	1.00	74,50	
MOTA	1909	NE	ARG	A	548	-2,305	-12.167 2.863	1.00	75.04	
ATOM	1910	CZ	ARG	A	548	-2.478	-10.880 3.149	1.00	75.59	
ATOM	1911	NH1	ARG	A	548	-1.506	-10.006 2.919	1.00	75.79	
MOTA	1912	NH2	ARG	A	548		-10.464 3.662	1.00	76.00	
ATOM	1913	C	ARG	A	548		-16.133 4.061	1.00	74,94	
ATOM	1914	0	ARG	A	548		-16.697 4.549	1.00	75.15	
ATOM	1915	N	LEU	A	549	2.398		1.00	76.49	
ATOM	1916	CA	LEU	A	549		-17.969 4.653	1.00	78.14	
ATOM	1917	CB	LEU	A	549	2.971	-18.986 3,557	1.00	77,55	
ATOM	1918	C	LEU	A,	549	3.846	-17.870 5.619	1.00	79.13	
MOTA	1919	OVE	LEU	A	549	4.892	-17.317 5.215	1.00	80.40	
atom Hetatm	1920 1921	OXT CP9	Leu Des	A A	549 600	3.708 5.390	-18.341 6.769 -3.061 -6.139	1.00	79.46 21.38	
HETATM	1921	CP8	DES	A	600	5.834	-1.989 -5.134	1.00	22.41	
HETATM	1923	CP7	DES	A	600	5.038	-0.714 -5.236	1.00	21.32	
HETATM	1924	CP6	DES	A	600	3.587	-0.864 -5.062	1.00	25.87	
HETATM	1925	CP1	DES	A	600	2.987	-0.978 -3.784	1.00	23.92	
HETATM	1926	CP2	DES	A	600	1.597	-1.150 -3.684	1.00	29.77	
HETATM	1927	CP3	DES	A	600	0.842	-1.214 -4.871	1.00	31.40	
HETATM	1928	OP3	DES ·	A	600	-0.506	-1.419 -4.824	1.00	33.36	
HETATM	1929	CP4	DES	A	600	1.421	-1.099 -6.143	1.00	27.01	
HETATM	1930	CP5	DES	Α̈́	600	2.793	-0.929 -6.230	1.00	27.40	
HETATM	1931	C7	DES	A	600	5.671	0.461 -5.482	1,00	22.39	
HETATM	1932	C6	DES	Α	600	7.113	0.561 -5.809	1.00	21.75	
HETATM	1933	C5	DES	A	600	7.541	0.306 -7.131	1.00	19.97	
HETATM	1934		DES	A	600	8.889	0.429 -7.477	1.00	23.81	
HETATM	1935		DES	A	600	9.814	0.804 -6.488	1.00	21.88	
HETATM	1936		DES	A	600 600	11.125		1.00	22.32	
HETATM HETATM	1937 1938	C2 C1	DES DES	A	600	9.423 8.066	1.066 ~5.161 0.937 -4.838	1.00	19.74 21.25	
HETATM	1939	C8	DES	A A	600	4.894	1,765 -5.443	1.00	21.47	
HETATM	1940	C9	DES	A	600	4.959	2.468 -4.070	1.00	21.38	
HETATM -	1941	CL	CL	A	601	14.781	-3.035-17.739	1.00	24.10	
ATOM	1942	CB	SER	В	305	12.321	21.086 25.295	1.00	64.27	
MOTA	1943	C	SER	В	305	12.672	22.102 27.548	1.00	64.37	
ATOM	1944	0	SER	В	305	13.701	22.760 27.702	1.00	66.90	
ATOM	1945	N	SER	В	305	12.045	23.521 25.606	1.00	63.72	
ATOM	1946	CA	SER	В	305	11.875	22.187 26.251	1.00	64.21	
ATOM	1947	N	LEU	В	306	12.193	21.293 28,484	1.00	63.09	
ATOM	1948	CA	LEU	В	306	12.884	21.133 29.757	1.00	60.98	
ATOM	1949	CB	LEU	В	306	11.884	21.200 30.913	1.00	61.23	
ATOM	1950	CG	LEU	В	306	12.221	20.417 32.183	1.00	62.23	
ATOM	1951	CD1	LEU	В	306	13.304	21.144 32.966	1.00	62.56	
ATOM	1952	CD2	LEU	В	306	10.965	20.258 33.027	1.00	64.31	
ATOM	1953	C	LEU	В	306	13.660	19.819 29.803	1.00	58.39	
ATOM	1954	0	LEU	В	306	14.570	19.654 30.614	1.00	58.56	
ATOM	1955	N	ALA	В	307	13.293	18.881 28.933	1.00	54.82	
ATOM	1956	CA	ALA	В	307	13.971	17.589 28.861	1.00	50.62	
MOTA	1957	CB	ALA	В	307	13.092	16.584 28.143	1.00	51.30	
ATOM	1958	C	ALA	В	307	15.303	17.719 28.122	1.00	46.84	

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MOTA	1959		ALA	B	307	16.196	16.885 28.2		45.62	- ·
MOTA MOTA	1960 1961		LEU	В	308	15.431	18.769 27.3		43,46	
ATOM	1961		LEU	B B	308 308	16.643 16.413	18.983 26.5		43.01	
ATOM	1963		LEU	В	308	16.315	20.100 25.53 19.708 24.09		41.32	
ATOM	1964		LEU	В	308	15.942	18.239 23.9		40.51	
ATOM	1965		LEU	В	308	15.287	20.602 23.3		39.80	
ATOM	1966		LEU	В	308	17.874	19.297 27.3		42.11	
ATOM	1967		LEU	В	308	19.000	19,102 26.9		44.34	
ATOM	1968	N	SER	В	309	17.669	19.775 28.60		40.88	
ATOM	1969	CA	SER	В	309	18.796	20.100 29.4		42.79	
MOTA	1970	CB	SER	В	309	18.562	21.447 30.16	3 1.00	41.25	
ATOM	1971	OG	SER	В	309	17,459	21.379 31.04	1.00	46.67	
MOTA	1972	C	SER	B	309	19.072	19.028 30.5		42.60	
ATOM	1973	0	SER	В	309	20.053	19.119 31.26		44.18	
ATOM	1974	N	LEU	В	310	18.217	18.012 30.59		39.44	
MOTA	1975	CA	LEU	В	310	18.394	16.936 31.56		37.62	
ATOM ATOM	1976 1977	CB CG	LEU	B B	310	17.205	15.969 31.49 15.873 32.66		38.84	
ATOM	1978	CD1	LEU	В	310 310	16.216 16.040	17.219 33.35		42.43 42.55	
ATOM	1979	CD3	LEU	В	310	14.881	15.380 32.13		39.69	
ATOM	1980	C	LEU	В	310	19.691	16,174 31.28		34.11	
ATOM	1981	0	LEU	В	310	20.111	16.070 30.13		34.41	
ATOM	1982	N	THR	В	311	20.339	15.662 32.32		34.04	
ATOM	1983	CA	THR	В	311	21,564	14.888 32.12	7 1.00	32.34	
ATOM	1984	CB	THR	В	311	22.434	14.824 33.39	9 1.00	31.75	
ATOM	1985	OG1	THR	В	311	21.724	14.116 34.42		36.20	
ATOM	1986	CG2	THR	В	311	22.782	16.212 33.89		31.05	
MOTA	1987	C	THR	В	311	21.145	13.460 31.75		32.37	
MOTA MOTA	1988 1989	O N	THR ALA	В	311 312	19.967	13.117 31.89		28.16	
ATOM	1990	CA	ALA	B B	312	22.106 21.811	12.628 31.39 11.237 31.05		33.23 35.63	
ATOM	1991	CB	ALA	В	312	23.077	10.527 30.57		34.00	
ATOM	1992	C	ALA	В	312	21,210	10.489 32.24		34.29	
ATOM	1993	0	ALA	В	312	20.226	9.766 32.08		33.10	
ATOM	1994	N	ASP	В	313	21.800	10.665 33.41		33.90	
ATOM	1995		ASP	В	313	21.304	9.994 34.61	5 1.00	34.19	
MOTA	1996		ASP	В	313	22.258	10.219 35.78		42.09	
ATOM	1997		ASP	В	313	23.494	9.358 35.70		44.87	
MOTA	1998		ASP	В	313	24.586	9.858 36.04		51.57	
ATOM ATOM	1999 2000		ASP ASP	B B	313 313	23.377 19.925	8.184 35.29 10.520 34.97		45.79	
ATOM	2000		ASP	В	313	19.925	9.768 35.42		31.99 32.03	
ATOM	2002		GLN	В	314	19.733	11,819 34.76		29.38	
ATOM	2003		GLN	В	314	18.458	12.457 35.04		29.73	
MOTA	2004		GLN	В	314	18.562	13.966 34.83		32.88	
ATOM	2005	CG	GLN	В	314	18.970	14.732 36.08		36.47	
MOTA	2006	CD	GLN	В	314	19.213	16.208 35.81	5 1.00	36.76	
MOTA	2007		GLN	В	314	19.300	16.634 34.66	4 1,00	38.79	
ATOM		NE2	GLN	В	314	19.327	16.995 36.88		39.72	
ATOM	2009		GLN	В	314	17.409	11.873 34.11		29.11	
ATOM		0	GLN	В	314	16.274	11.620 34.52		28.82	
ATOM ATOM	2011		MET	В	315	17.801	11.657 32.86		27.27	
ATOM	2012 2013	CB	MET MET	B B	315 315	16,900 17.595	11.079 31.87 11.029 30.50		30.41	
ATOM	2013		MET	В	315	16.787	10.345 29.42		30.10 38.02	
ATOM	2015	SD	MET	В	315	15.252	11.220 29.06		41.12	
ATOM		CE	MET	В	315	15.890	12.835 28.61		39.32	

ATOM	2017	C	MET	В	315	16.490	9.665 32.311	1.00	27.99
atom	2018	Ο.	MET	В	315	15.302	9.351 32.396	1.00	26.60
atom	2019	N	VAL	B.	316	17.481	8.823 32.598	1,00	27.26
ATOM	2020	CA	VAL	B	316	17.229	7.447 33.027	1.00	24.54
ATOM	3031	CB	VAL	₿	316	18.554	· · ·	1.00	26.22
ATOM	2022	CG1	VAL	В	316	18.272	5.404 34.096	1.00	29,81
ATOM	2023	CG2	VAL	B	316	19.302	6.410 32.074	1.00	29.75
ATOM	2024	Ç	VAL	B	316	16.326	7.389 34.258	1.00	27.22
atom	2025	O	VAL	B	316	15.397	6.579 34.318	1.00	25.55
Mota	2026	N	SER	B	317	16.601	8,243 35.242	1.00	24.40
ATOM	2027	CA	SER	B	317	15.799	8.268 36.460	1.00	27.63
ATOM	2028	CB	SER	В	317	16.358	9.294 37.451	1.00	31.68
atom	2029	06	Ser	B	317	17.492	8.771 38.112	1.00	39.97
MOTA	2030	C	SER	В	317	14.346	8,600 36,154	1.00	26.73
ATOM	2031	ච	SER	B	317	13.434	7.932 36,648	1.00	25.65
ATOM	2032	N	ALA	В	318	14.135	9.634 35.342	1.00	24.19
ATOM	2033	CA	ALA	В	318	12.786	10.049 34.969	1.00	24.17
ATOM	2034	CB	ALA	B	318	12.850	11.250 34.022	1.00	21.44
ATOM	2035	e	ALA	B	318	12.038	8.890 34.306	1.00	21.63
ATOM	2036	0	ALA	В	318	10.902	8.598 34.648	1.00	20.25
ATOM	2037	N	LEU	В	319	12.695	8,225 33.364	1.00	23.37
ATOM	2038	CA	LEU	В	319	12.098	7.102 32.652	1.00	25.42
MOTA	2039	CB	LEU	В	319	13.050	6.635 31,548	1.00	22.03
ATOM	2040	CG	LEU	В	319	13.264	7.622 30.394	1.00	20.71
ATOM	2041	CD1	LEU	В	319	14.146	6.995 29.331	1.00	23.60
ATOM	2042	CD2	LEU	B	319	11.918	8.020 29.803	1.00	23.82
ATOM ATOM	2043 2044	С 0	LEU	B B	319 319	11.729 10.615	5.926 33.564	1.00	27.26 28.91
ATOM	2044	И	LEU	В	320	12.656	5.396 33.488 5.516 34.426	1.00 1.00	26.58
ATOM	2045	CA	LEU	В	320	12.399	4.405 35,334	1.00	26.73
ATOM	2047	CB	LEU	В	320	13.657	4.075 36.145	1.00	26.87
ATOM	2048	CG	LEU	В	320	14.846	3,460 35.398	1.00	26.15
ATOM	2049	CD1	LEU	В	320	16,053	3.375 36.330	1.00	28.04
ATOM	2050	CD2	LEU	В	320	14.484	2.076 34.895	1.00	26.96
ATOM	2051	C	LEU	В	320	11.249	4.722 36.290	1.00	29.19
ATOM	2052	ō	LEU	B	320	10.449	3.849 36.631	1.00	26.66
ATOM	2053	N	ASP	В	321	11.160	5.976 36.719	1.00	29.72
ATOM	2054		ASP	В	321	10.112	6.371 37.647		31.36
ATOM	2055		ASP	В	321	10.494	7.683 38.336	1.00	36.60
ATOM	2056	CG	ASP	В	321	11.407	7.461 39,535	1.00	46.11
ATOM	2057	OD1	ASP	В	321	10.897	7.058 40.605	1.00	46.64
MOTA	2058	OD2	ASP	В	321	12.635	7.676 39.402	1.00	45.98
ATOM	2059	C.	ASP	В	321	8.742	6.494 36.989	1.00	28.29
ATOM	2060	0	ASP	В	321	7.715	6.432 37.661	1.00	27.19
ATOM	2061	N	ALA	В	322	8.726	6.650 35.672	1.00	28.34
ATOM	2062	CA	ALA	В	322	7.469	6.779 34.950	1.00	25.55
ATOM	2063	CB	ALA	В	322	7.668	7.668 33.728	1.00	24.11
ATOM	2064	C .	ALA	В .	322	6.911	5.420 34.523	1.00	22.80
MOTA	2065	0	ALA	В	322	5.810	5.338 33.979	1.00	24.54
MOTA		N	GLU	В	323	7.662	4.355 34.781	1.00	20.16
ATOM			GLU	В	323	7.229	3.021 34.386	1.00	21.44
MOTA	2068	CB	GLU	В	323	8.196	1.982 34.938	1.00	23.72
AŢOM	2069	CG	GLU	В	323	9.393	1.746 34.024	1.00	23.58
MOTA		CD	GLU	В	323	8.988	1.134 32.685	1.00	25.23
ATOM		OE1	GLU	B	323	8.852	1.881 31.692	1.00	21.74
ATOM		OE2	GLU	В	323	8.809	-0.095 32.624	1.00	25.49
ATOM		C	GLU	В	323	5.796	2.696 34.810	1.00	22.35
ATOM	2074	0	GLU	В	323	5.409	2.926 35.951	1.00	22.34

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ATOM	2075	N	PRO	В	324	4.986		33.880	1.00	19.10
Atom	2076	CD	PRO	B	324	5.286	1.006	32.483	1.00	19.11
ATOM	2077	CA	PRO	B	324	3.607	1.839	34.242	1.00	22.04
ATOM.	2078	CB	PRO	В	324	2.919	1.658	32.893	1.00	21.96
ATOM	2079	CG	PRO	В	324	4.015	1.137	32.015	1.00	24,13
ATOM	2080	C	PRO	В	324	3.619		35.060	1.00	23.44
MOTA	2081	ō	PRO	B	324	4.590		35.028	1.00	22.20
ATOM	2082	N	PRO	В	325	2.540		35.801	1.00	24.88
ATOM	2083	CD	PRO	В	325	1.299		35.945	1.00	26.67
ATOM	2084	CA	PRO	В	325	2.520		36.603	1.00	25.10
ATOM	2085	CB	PRO	В	325	1.394		37,595	1.00	27.09
MOTA	2086	CG	PRO	В	325	0.448	•	36,854	1.00	26.87
ATOM	2087	C	PRO	B	325	2.270		35.776	1.00	25.77
ATOM	2088	0	PRO	B	325	1.853		34.617	1,00	
ATOM	2089	й	ILE	B	326	2.538		36.379		21.69
ATOM	2099		ILE	B	326	2.301			1.00	24.05
ATOM	2091	CA CB	ILE	B	326	3.303	-4.620 -5.689		1.00	22.51
ATOM	2092	CG2			326				1,00	25.81
	2092	CG1	ILE	В	326	3.011	-7.018 -5,209		1.00	23.78
ATOM	2093	CD1	ILE	В		4.729	•		1.00	25.75
ATOM ATOM	2095	CDI	ile Ile	B B	326 326	5.241 0.893	-5.585 -5.020		1.00 1.00	27.78 23.63
ATOM	2095	0	ILE	В	326	0.632	-5.231		1.00	24.81
ATOM	2097	N	LEU	В	327	-0.018	-5.231 -5.104		1.00	19.44
ATOM	2098	CA	LEU	B	327	-1.399	-5.437		1.00	17.03
ATOM	2099	CB	LEU	В	327	-2.336	-4.747		1.00	18.39
ATOM	2100	CG	LEU	В	327	-2.201	-3.216		1.00	20.69
ATOM	2101	CD1	LEU	В	327	-3.245	-2.679		1.00	14.87
ATOM	2102	CD2	LEU	В	327	-2.384	-2.570		1.00	14.39
ATOM	2103	C	LEU	В	327	-1.662	-6.928		1.00	19.87
ATOM	2104	Ó	LEU	В	327	-0.854	-7.722		1.00	20.90
ATOM	2105	N	TYR	B	328	-2.803	-7.300		1.00	20.92
ATOM	2106	CA	TYR	В	328	-3.202	-8.692		1.00	21.79
ATOM	2107	CB	TYR	В	328	-3.658	-9.050		1.00	22.91
ATOM .	2108	CG .	TYR	В	328	-2.515	-9.376	38.468	1.00	24.60
ATOM	2109	CD1	TYR	В	328	-2.118	-10.696	38.677	1.00	25.93
ATOM	2110	CE1	TYR	В	328	-1.034	-11.000		1.00	28,10
ATOM	2111	CD2	TYR	В	328	-1.802	-8.362	39.103	1.00	29.46
ATOM	2112	CE2	TYR	В	328	-0.716	-8.654	39.926	1.00	35.30
ATOM	2113	CZ	TYR	В	328	-0.338	-9.973	40.117	1.00	32.59
ATOM	2114	OH	TYR	В	328	0.739	-10.257	40.923	1.00	37.24
ATOM	2115	C	TYR	В	328	-4.336	-8.944	35,168	1.00	22.25
ATOM	2116	0	TYR	В	328	-5.115	-8.039	34.849	1.00	19.77
ATOM	2117	N	SER	В	329	-4.420	-10.180	34.698	1.00	25.81
ATOM	2118	CA	SER	B	329	-5.480	-10.571	33.787	1.00	29.39
ATOM	2119	CB	SER	В	329	-5,002	-11.710	32.887	1.00	27.65
ATOM	2120	OG	SER	₿	329	-6.091	-12.329	32.233	1.00	28,98
ATOM	2121	C	SER	В	329	-6.625	-11.042	34.673	1.00	33.17
ATOM	2122	0	SER	В	329	-6.453	-11.157	35.888	1.00	32.52
ATOM	2123	N	GLU	В	330	-7.792	-11.289	34.084	1.00	38.75
ATOM	2124	CA	GLU	В	330	-8.930	-11.776	34.859	1.00	44.91
ATOM	2125	CB	GLU	В	330	-10.134	-11.999	33.951	1.00	45.63
MOTA	2126	С	GLU	В	330	-8.493	-13.093	35.491	1.00	48.62
ATOM	2127	0	GLU	В	330	-7.739	-13.851		1.00	52.37
ATOM	2128	N	TYR	В	331	-8.952	-13.366		1.00	51.75
ATOM	2129	CA	TYR	В	331	-8.575	-14,596		1.00	55.25
ATOM	2130	CB	TYR	В	331	-8.538	-14,365		1.00	53.04
MOTA	2131	CG	TYR	В	331	-9.769	•		1.00	50.70
ATOM	2132	CD1	TYR	В	331	-10.880	-14.400	39.856	1.00	47.09

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                            В
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ATOM	2196	OE1	GLU	B	339	-11.990	-17.785 16.600	1.00	45.28	
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MOTA	2207	CB	SER	В	341		-17.643 26.923	1.00	27.04	
MOTA MOTA	2208 2209	OG C	ser ser	B	341		-18.541 26.515	1.00	33.84	
ATOM	2210	0	SER	B	341		-15.793 25,960	1.00	23.97	
ATOM	2211	N	MET	В	341 342		-14.824 26.651 -16.368 25.114	1.00	21.56	
ATOM	2212	CA	MET	В	342		-15.865 24.954	1.00 1.00	26.83 27.24	
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ATOM	2214	CG	MET	В	342		-16.300 23.802	1.00	35.35	
ATOM	2215	SD	MET	В	342		-17.667 23.777	1.00	44.57	
ATOM	2216	CE	MET	В	342		-17.341 22.244	1.00	41.37	
ATOM	2217	С	MET	В	342		-14.448 24.385	1.00	25.31	
ATOM	2218	0	MET	В	342	-7.653	-13.541 24.874	1.00	26.67	
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ATOM	2220	CA	MET	В	343	-9.262	-12.979 22.712	1,00	25.47	
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ATOM	2222	CG	MET	В	343		-13.618 20.273	1.00	28.86	
ATOM	2223	SD	MET	В	343		-12.456 19.609	1.00	29.25	
ATOM	2224		MET	В	343		-11.015 19.371	1.00	28.74	
ATOM ATOM	2225		MET	В	343		-11.966 23.712	1.00	25.37	
ATOM	2226 2227	Ŋ	MET	B	343		-10.810 23.728	1.00	24.98	
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MOTA	2237	C	LEU	В	345	-7.425	-10.822 27.550	1.00	23.24	
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ATOM	2242	CG	LEU	В	346		-12.331 24.668	1.00	20.66	
ATOM	2243	CD1	LEU	В	346		-12.916 23.309	1.00	18.75	
ATOM	2244	CD2	LEU	В	346		-12.188 25.553	1.00	20.84	
ATOM	2245	C	LEU	В	346		8.873 25.458	1.00	22.99	
ATOM	2246	0	LEU	В	346	-5.540	-7.935 25.695	1.00	22.07	
ATOM	2247	N	THR	В	347	-7.516	-8.699 24.937	1.00	20.53	
MOTA	2248	CA	THR	В	347	-7.987	-7.357 24.608	1.00	21.89	

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ATOM	2249		THR	В	347	-9.152	-7.388 23.601	1.00	21.65
ATOM	2250	OG1	THR	B	347	-10.218	-8.190 24.123	1.00	19.65
ATOM	2251	CG2	THR	В	347	-8.676	-7.955 22.262	1.00	22.01
ATOM	2252	C	THR	В	347	-8.426	-6.590 25.853	1.00	23.60
MOTA	2253	0	THR	В	347	-8.358	-5.357 25.883	1.00	20.31
ATOM	2254	N	asn	В	348	-8.884	-7.314 26.874	1.00	22.27
MOTA	2255	CA	asn	В	348	-9.293	-6.667 28.114	1.00	23.99
ATOM	2256	CB	ASN	В	348	-10.008	-7.642 29.056	1.00	22.32
MOTA	2257	CG	ASN	В	348	-10.342	-7.022 30.398	1.00	28.26
ATOM	2258	OD1	asn	B	348	-9.478	-6.746 31.216	1.00	27.14
MOTA	2259	ND2	ASN	B	348	-11.647	-6,764 30,625	1.00	27.02
MOTA	2260	C	asn	B	348	-8.035	-6.120 28.798	1.00	19.48
MOTA	2261	0	ASN	В	348	-8.014	-4.991 29.271	1.00	18.26
ATOM	2262	N	LEU	В	349	-6.984	-6.931 28.632	1.00	19.07
ATOM .	2263	CA	LEU	В	349	~5.724	-6.516 29.446	1.00	20.37
ATOM	2264	CB	LEU	B	349	-4.716	-7.674 29.434	1.00	18.21
ATOM	2265	CG	LEU	В	349	-3.297	-7.316 29.889	1.00	18.24
ATOM	2266	CD1	LEU	В	349	-3,323	-6.904 31.356	1.00	12.44
ATOM	2267	CD2	LEU	B	349	-2.370	-8.504 29.672	1.00	21,28
MOTA	2268	C	LEU	В	349	-5.131	-5,307 28.718	1.00	19.92
MOTA	2269	0	LEU	В	349	-4.738	-4,322 29.349	1.00	16.56
ATOM	2270 2271	N	ALA	В	350	-5.067	÷5.391 27.391	1.00	16.67
ATOM ATOM	2271	CA CB	ALA ALA	B B	350 350	-4.529 -4.587	-4.308 26.578 -4.690 25.095	1.00	17.11
ATOM	2273	C	ALA	B	350	-5.272	-2.988 26.805	1.00	14.15 17.92
ATOM	2274	0	ALA	В	350	-4.650	~1.926 26.904	1.00	18.71
ATOM	2275	N	ASP	B	351	-6.600	-3.053 26.857	1.00	17.51
ATOM	2276	CA	ASP	В	351	-7.409	-1.856 27.074	1.00	16.57
ATOM	2277	CB	ASP	В	351	-8.902	-2.202 27.041	1.00	18.97
ATOM	2278	CG	ASP	В	351	-9.785	-0.974 26.858	1.00	21.80
ATOM	2279	OD1	ASP	В	351	-9.660	-0.292 25.824	1.00	24.62
 MOTA	2280	OD2	ASP	В	351	-10.604	-0.682 27,754	1.00	22.78
ATOM	2281	C	ASP	В	351	-7.064	-1.228 28.415	1.00	16.81
MOTA	2282	0	ASP	В	351	-6.963	-0.009 28.534	1.00	15.75
MOTA	2283	N	ARG	В	352	-6.894	-2.056 29.438	1.00	13.97
ATOM	2284	CA	ARG	В	352	-6.552	-1.509 30.742	1.00	16.09
ATOM	2285	CB	ARG	В	352	-6.728 .	-2.571 31.833	1.00	15.78
ATOM	2286	CG	ARG	В	352	-8.189	-2.819 32.189	1.00	17.93
ATOM	2287	CD	ARG	В	352	-8.323	-3.882 33,279	1.00	19.84
MOTA	2288	NE	ARG	B	352	-8.010	-5.222 32.785	1.00	21.36
ATOM	2289	CZ	ARG	B	352	-7,187	-6.075 33.387	1.00	21.18
ATOM	2290	NH1	ARG	₿	352	-6.579	-5.741 34.516	1.00	20.51
ATOM	2291	NH2	ARG	В	352	-6.980	-7.275 32.864	1.00	28.51
ATOM	2292	C	ARG	В	352	-5.123	-0.975 30.728	1.00	15.81
ATOM	2293	0	ARG	B	352	-4.835	0.057 31.339	1.00	15.61
ATOM	2294	N	GLU	В	353	-4.231	-1.665 30.019	1.00	15.45
MOTA	2295	CA	GLU	В	353	-2.838	-1.228 29.935	1.00	16,59
ATOM	2296	CB	GLU	В	353	-1.990	-2.243 29.168	1.00	14.64
ATOM	2297	CG	GLU	В	353	-1.554	-3.456 29.973	1.00	18.23
ATOM	2298	CD OF1	GLU	В	353	-0.620 -1.000	-4.355 29.176	1.00	22.72
ATOM ATOM	2299 2300	OE1 OE2	GLU	В	353	-1.099	-5.078 28.275	1.00	21.94
ATOM	2300	C	GLU GLU	B	353	0.599	-4.324 29.442	1.00	24.41
ATOM	2301	0	GLU	B B	353 353	-2.729 -1.872	0.119 29.219 0.939 29.540	1.00	15.85 13.76
ATOM	2302	Ŋ	LEU	В	353 354	-3.594	0.335 28.235	1.00	12.93
ATOM	2303	CA	LEU	В	354 354	-3.554	1.575 27.472	1.00	15.33
ATOM	2304	CB	LEU	В	354	-4.616	1.575 27.472	1.00	16.44
ATOM	2305	CG	LEU	В	354	-4.174	0.750 25.112	1.00	17.03
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ATOM	2307		LEU	В	354	-5.373	0.509 24.189	1.00	16.70
MOTA	2308	CD2	LEU	В	354	-3.069	1.531 24.384	1.00	14.52
MOTA	2309	C	LEU	B	354	-3.747	2.805 28.361	1.00	12.78
ATOM	2310	0	LEŲ	В	354	-3.123	3.850 28.141	1.00	14.28
ATOM	2311	N	VAL	В	355	-4.600	2.682 29.369	1.00	12.60
ATOM	2312	CA	VAL	В	355	-4.844	3.791 30.279	1.00	16.78
ATOM	2313	CB	VAL	В	355	-5.925	3.429 31.327	1.00	16.84
ATOM	2314	CG1	VAL	В	355	-6.070	4.561 32.344	1.00	19.88
MOTA	2315	CG2	VAL	В	355	-7.254	3.187 30.639	1.00	19.33
ATOM	2316	С	VAL	В	355	-3.533	4.161 30.986	1.00	19.17
ATOM	2317	0	VAL	B	355	-3.158	5.328 31.049	1.00	17.30
ATOM	2318	N	HIS	В	356	-2.826	3.160 31.499	1.00	19.68
ATOM	2319	CA	HIS	В	356	~1.559	3.418 32.177	1.00	20.64
ATOM	2320	CB	HIS	В	356	-1.110	2.174 32.945	1.00	21.03
ATOM	2321	CG	HIS	В	356	-2.018	1.818 34,085	1.00	22.88
ATOM	2322	CD2	HIS	В	356	-3.128	1.045 34.135	1.00	21.70
ATOM	2323	ND1	HIS	В	356	-1.838	2.312 35.358	1.00	19.24
ATOM	2324	CE1	HIS	В	356	-2.802	1.860 36.145	1.00	18.84
ATOM	2325	NE2	HIS	В	356	-3.598	1.088 35.426	1.00	17.92
ATOM	2326	C	HIS	В	356	-0.479	3.861 31.184	1.00	19.67
ATOM	2327	Ö	HIS	В	356	0.424	4.614 31.547	1.00	19.61
ATOM	2328	N	MET	В	357	-0.566	3.413 29.931	1.00	14.92
ATOM	2329	CA	MET	В	357	0.428	3.830 28.939	1.00	15.13
ATOM	2330	CB	MET	В	357	0.239	3.099 27.604	1.00	13.13
ATOM	2331	CG	MET	В	357	1.149	3.631 26.476	1.00	14.71
ATOM	2332	SD	MET	В	357		3.014 24.826	1.00	17.75
ATOM	2333	CE	MET	В	357	0.746	1.222 25.122	1.00	15.21
ATOM .	2334	c	MET	В	357	0.316	5.334 28.699	1.00	14.94
ATOM	2335	ō	MET	В	357	1.319	6.031 28.560	1.00	17.02
AŢOM	2336	N	ILE	B	358	-0.909	5.839 28.659	1.00	18.01
ATOM	2337	CA	ILE	В	358	-1.122	7.263 28.423	1.00	19.77
ATOM	2338	CB	ILE	В	358	-2.634	7.577 28.287	1.00	23.11
ATOM	2339	CG2	ILE	В	358	-2.879	9.080 28.450	1.00	25.00
ATOM	2340	CG1	ILE	В	358	-3.137	7.105 26.913	1.00	24.19
ATOM	2341	CD1	ILE	В	358	-4.600	6.653 26.890	1.00	20.17
ATOM	2342	C	ILE	В	358	-0.501	8.100 29.550	1.00	22.93
ATOM	2343	0	ILE	В	358	0.080	9.153 29.299	1.00	23.33
ATOM	2344	N	ASN	В	359	-0.619	7.631 30.790	1.00	22.34
ATOM	2345	CA	ASN	В	359	-0.029	8.341 31.924	1.00	23.24
ATOM	2346	CB	ASN	В	359	-0.480	7.726 33.224	1.00	25.10
ATOM	2347	CG	ASN	В	359	-1.831	8.171 33.649	1.00	32,65
ATOM	2348	OD1	ASN	В	359	-2.421	9.069 33.042	1.00	32.98
ATOM	2349	ND2	ASN	В	359	-2.364	7.549 34.691	1.00	33.87
ATOM	2350	C	ASN	В	359	1.473	8.306 31.837	1.00	24.77
ATOM	2351	0	ASN	В	359	2.152	9.285 32.149	1.00	24.19
ATOM	2352	N	TRP	В	360	1.995	7.149 31.438	1.00	20.82
ATOM -	2353	CA	TRP	В	360	3.439	6.965 31.310	1.00	19.29
ATOM	2354	CB	TRP	В.	360	3.754	5.524 30.878		18.59
MOTA	2355	CG	TRP	В	360	5.085	5.363 30.176	1.00	18.21
ATOM	2356	CD2	TRP	В	360	5.310	5.308 28.756	1.00	14.38
ATOM	2357	CE2	TRP	В	360	6,698	5.129 28.561	1.00	13.42
ATOM	2358	CE3	TRP	В	360	4.475	5.392 27.633	1.00	15.52
ATOM	2359	CD1	TRP	В	360	6.306	5.221 30.762	1.00	13.34
ATOM	2360	NE1	TRP	В	360	7.283	5.078 29.800	1.00	16.05
ATOM	2361	CZ2	TRP	В	360	7.283 7.272	5.078 29.800	1.00	
ATOM	2362	CZ3	TRP	B	360	5.045	5.296 26.363	1.00	16.84
ATOM	2363	CH2	TRP	В	360	6.431	5.296 26.363	1.00	15.11
ATOM	2364	C	TRP	В	360	3.979	7.939 30.273	1.00	16.12 20.13
	2707	_	****		200	2.217	1.333 34.413	1.00	20.13

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MOTA	2365	O	TRP	В	360	4.991	8,606 30,497	1.00	17.26	
atom	2366	N	ALA	В	361	3.295	8.012 29.135	1.00	19.34	
ATOM	2367	CA	ALA	В	361	3.708	8.900 28.051	1.00	22.01	
ATOM	2368	CB	ALA	В	361	2.682	8.855 26.921	1.00	19.53	
ATOM	2369	C	AĻA	B	361	3.883	10,336 28.552	1.00	22.39	
MOTA	2370	O	ALA	8	361	4.858	11.005 28.210	1.00	19.57	
MOTA	2371	N	Lys	В	362	2.932	10.794 29.361	1.00	21.96	
ATOM	2372	CA	LYS	В	362	2,966	12.139 29.923	. 1.00	26.45	
ATOM	2373	CB	LYS	B	362	1.741	12.363 30.811	1.00	29.79	
ATOM	2374	CG	LYS	B	362	0.426	12.417 30.064	1.00	33.57	
ATOM	2375	CD	LYS	В	362	-0.563	13.304 30,805	1.00	36.83	
ATOM	2376	CE	LYS	В	362	-1.620	12.490 31,512	1.00	36.89	
ATOM	2377	NZ	LYS	B	362	-2.873	13.276 31.664	1.00	39.07	
ATOM	2378	Ċ	LYS	B	362	4.223	12.379 30.757	1.00	27.77	
ATOM	2379	0	LYS	B	362	4.661	13.517 30.922	1.00	26.93	
ATOM	2380	N	ARG	В	363	4.805	11.302 31,278	1.00	26.61	
ATOM	2381	CA	ARG	В	363	5.996	11.414 32.109	1.00	27.74	
ATOM	2382	CB	ARG	B	363	5.887	10.457 33.298	1.00	28.93	
ATOM	2383	CG	ARG	В	363	4.650	10.704 34.158	1.00	36.07	
ATOM	2384	CD	ARG	В	363	4.569	9.745 35.344	1.00	42.83	
ATOM	2385	NE	ARG	В	363	4.477	8.344 34.928	1.00	49.79	
ATOM	2386	ĆZ	ARG	В	363	3.395	7.582 35.080	1.00	51.48	
ATOM ATOM	2387	NH1	ARG	В	363	2.300	8.081 35,648	1.00	52.17	
ATOM	2388 2389	NH2 C	ARG ARG	В	363	3.405	6.316 34.668	1.00	40.24	
ATOM	2399	0	ARG	B B	363 363	7.308	11,190 31.367	1.00	25.80	
ATOM	2391	И	VAL	В	364	8.374 7.231	11.183 31.975	1.00	29,36	
ATOM	2392	CA	VAL	В	364	8.431	11.009 30.053 10.823 29.248	1.00	24.28 21.87	
ATOM	2393	CB	VAL	В	364	8.116	10.048 27.947	1.00	21.84	
ATOM	2394	CG1	VAL	B	364	9.267	10.184 26.968	1.00	15.85	
ATOM	2395	CG2	VAL	В	364	7.860	8.560 28.268	1.00	16.24	
ATOM	2396	c	VAL	В	364	8.925	12.241 28.923	1.00	28.14	
ATOM	2397	0	VAL	В	364	8.219	13.023 28.285	1.00	24.24	
ATOM	2398	N	PRO	B	365	10.141	12.591 29.375	1.00	28.57	
ATOM	2399	CD	PRO	В	365	11,061	11.726 30.137	1.00	30.58	
ATOM	2400	CA	PRO	В	365	10.719	13.919 29.138	1.00	32.16	
ATOM	2401	CB	PRO	В	365	12.189	13.739 29.507	1.00	32.70	
MOTA	2402	CG	PRO	B	365	12.170	12.671 30.545	1.00	33.35	
ATOM	2403	C	PRO	В	365	10.546	14.464 27,726	1.00	32.22	
ATOM	2404	0	PRO	В	365	11.056	13.897 26.766	1.00	37.04	
ATOM	2405	N	GLY	В	366	9.821	15.570 27.609	1.00	34.09	
ATOM	2406	CA	GLY	В	366	9.612	16.182 26.310	1.00	32,54	
ATOM	2407	C	GLY	В	366	8.241	15.969 25.700	1.00	33.46	
ATOM	2408	0	GLY	В	366	7.791	16.779 24.886	1.00	33.73	
ATOM	2409	N	PHE	В	367	7.564	14.895 26.096	1.00	31.08	
ATOM	2410	CA	PHE	В	367	б.250	14,593 25.542	1.00	28.60	
ATOM	2411	CB	PHE	В	367	5.745	13.244 26.058	1.00	25.96	
ATOM	2412	CG	PHE	В	367	4.629	12.671 25.239	1.00	22.75	
ATOM	2413	CD1	PHE	B	367	3.313	12.771 25.669	1,00	22.62	
ATOM	2414	CD2	PHE	В	367	4.897	12.025 24.033	1.00	22.29	
ATOM	2415	CE1	PHE	В	367	2.272	12.233 24.914	1.00	25.63	
MOTA	2416	CE2	PHE	В	367	3.867	11,486 23,272	1.00	20.82	
ATOM	2417	CZ	PHE	В	367	2.553	11.588 23.711	1.00	25.50	
ATOM	2418	C	PHE	В	367	5.178	15.646 25.781	1.00	26.79	
ATOM	2419	0	PHE	В	367	4.458	16.001 24.854	1.00	23.37	
ATOM	2420	N	VAL	В	368	5.049	16.143 27.009	1.00	31.26	
ATOM	2421	CA	VAL	В	368	4.020	17.151 27.277	1.00	35.71	
MOTA	2422	CB	VAL	В	368	3.817	17.412 28.795	1.00	35,98	

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ATOM	2423		VAL	В	368	2.944	16.320 29,393	1.00	37.64	-
ATOM	2424		VAL	В	368	5.157	17.495 39.508	1.00	35.81	
atom	2425	C	VAL	В	368	4.328	18.482 26.598	1.00	35.87	
ATOM	2426	0	VAL	B	368	3.450	19.330 26.457	1.00	37.71	
atom	2427	N	asp	B	369	5.572	18.665 26,175	1.00	35.49	
MOTA	2428	CA	asp	B	369	5.950	19.904 25.503	1.00	36.54	
MOTA	2429	CB	ASP	B	369	7.466	19.963 25.309	1.00	39.79	
ATOM	2430	CG	ASP	B	369	8.213	20.169 26,615	1.00	44,33	
atom	2431	OD1	ASP	В	369	9.409	19.807 26,684	1.00	48.45	
atom	2432	OD2.	asp	B	369	7.604	20.693 27.572	1.00	43.27	
ATOM	2433	C	asp	В	369	5.248	19.997 24.149	1.00	34.49	
ATOM	2434	0	ASP	В	369	5.131	21.074 23.571	1.00	34.51	
MOTA	2435	N	LEU	В	370	4.776	18.859 23.653	1.00	30.97	
MOTA	2436	CA	LEU	B	370	4.086	18.809 22.370	1.00	29.80	
MOTA	2437	CB	LEU	В	370	4.145	17.389 21.799	1.00	27.27	
MOTA	2438	CG	LEU	В	370	5.522	16.733 21.688	1.00	28.07	
ATOM	2439	CD1	LEU	В	370	5.353	15.242 21.400	1.00	30.38	
ATOM	2440	CD2	LEU	В	370	6.316	17.396 20.574	1.00	22.82	
ATOM	2441	С	LEU	В	370	2.628	19.218 22.521	1.00	28.04	
ATOM	2442	0	LEU	В	370	2.066	19.151 23.611	1.00	29.71	
MOTA	2443	N	THR	В	371	2.011	19.645 21.425	1.00	28.70	•
ATOM	2444	CA	THR	B	371	0.602	20.014 21.474	1.00	30,31	
ATOM	2445	CB	THR	B	371	0.150	20.690 20.163	1.00	31.96	
MOTA	2446	OG 1	THR	B	371	0.284	19.763 19.080	1.00	29.49	
ATOM	2447	CG2	THR	В	371	0.991	21.930 19.878	1.00	29,98	
ATOM	2448	C	THR	В	371	-0.208	18.726 21.666	1.00	30.59	
ATOM	2449	0	THR	B	371	0.300	17.624 21.431	1.00	27.10	
ATOM	2450	N	LEU	В	372	-1.461	18.863 22.087	1.00	27.65	
ATOM	2451	CA,	LEU	В	372	-2.323	17.702 22.303	1.00	30.86	
ATOM	2452	CB	LEU	B	372	-3.722	18.147 22,737	1.00	30.11	
ATOM	2453	ÇG	LEU	В	372	-4.715	17.006 22,960	1.00	32,80	
MOTA	2454	CD1	LEU	В	372	-4.231	16.147 24.126	1.00	34,10	
MOTA	2455	CDS	LEU	В	372	-6.105	17.562 23.246	1.00	31.16	
ATOM	2456	Ç	LEU	B	372	-2.437	16.863 21.034	1.00	31.77	
ATOM	2457	0	LEU	В	372	-2.417	15.629 21.078	1.00	27.06	
ATOM	2458	N	HIS	В	373	-2.564	17.548 19.905	1.00	31.30	
MOTA	2459	CA	HIS	B	373	-2.685	16.888 18.614	1.00	31,35	
ATOM	2460	CB	HIS		373	-2.844	17.935 17.503	•		
ATOM	2461	ÇG	HIS	B	373	-2.503	17.430 16.132	1.00	41.27	
ATOM	2462	CDZ	HIS	В	373	-3.293	17.105 15.079	1.00		
ATOM	2463	ND1	HIS	В	373	-1.205	17.220 15.715	1.00	43.69	
ATOM	2464	CE1	HIS	В	373	-1.210	16.787 14.465	1.00	48.87	
ATOM	2465	NE2	HIS	В	373	-2.465	16.708 14.056	1.00	43.72	
ATOM	2466	C	HIS	В	373	-1.468	16,012 18.337	1.00	28.29	
ATOM	2467	0	HIS	В	373	-1.610	14.878 17.897	1.00	30.21	
ATOM	2468	N	ASP	В	374	-0.275	16.541 18.589	1.00	28.85	
ATOM	2469	CA	ASP	В	374	0.950	15.783 18.350	1.00	28.28	
ATOM	2470	CB	ASP	В	374	2.178	16.678 18.535	1.00	31,33	
ATOM	2471	CG	ASP	В	374	2,433	17.577 17.333	1.00	39.07	
ATOM ATOM	2472	OD1	ASP	В	374	3.195	18.557 17.478	1.00	40.60	
ATOM	2473	OD2	ASP	В	374	1.874	17.305 16.246	1.00	38.64	
	2474	e 0	ASP	В	374	1.029	14.592 19.303	1.00	29.05	
ATOM	2475	0	ASP	В	374	1.432	13,494 18.908	1.00	24.26	
ATOM ATOM	2476	N	GLN	В	375	0.642	14.814 20.556	1.00	24.52	
ATOM	2477	CA	GLN	В	375	0.667	13.749 21.547	1.00	27.37	
ATOM	2478	CB	GLN	В	375	0.213	14.270 22,901	1.00	26.66	
ATOM	2479	CG CD	GLN	В	375	1,164	15.236 23.563	1.00	29.74	
AT ON	2480	CD	GLN	B	375	0.623	15.691 24,890	1.00	33.13	

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MOTA	2481		GLN	В	375	-0.044	14.953 2	5.602	1.00	32.82	
ATOM	2482	NE2	GLN	B	375	0.895	16.953 2		1.00	33.98	
ATOM	2483	e	GLN	B	375	-0.259	12.630 2		1.00	24.52	
ATOM	2484	0	GLN	В	375	0.074	11.451 2		1.00	23.56	
atom Atom	·2485 2486	N	VAL VAL	B B	376	-1.426	13.013 20	,	1.00	21.87	
ATOM	2487	CA CB	VAL	B	376 376	-2.409 -3.718	12.055 20		1.00	23.44 22.09	
ATOM	2488	CG1	VAL	B	376	-4.572	11.823 18		1,00	24.14	
ATOM	2489	CG2	VAL	B	376	-4.486	13.192 20		1.00	16.96	
MOTA	2490	C	VAL	B	376	-1.852	11.257 18		1.00	24.15	
MOTA	2491	0	VAL	₿	376	-1.949	10.032 18		1.00	22.26	
MOTA	2492	N	HIS	В	377	-1.251	11,953 18	3.007	1.00	25.85	
ATOM	2493	CA	HIS	B	377	-0.689	11.284 16	5.843	1.00	25.68	
mota	2494	CB	HIS	B	377	-0.078	12.306 15		1,00	25.27	
MOTA	2495	eg 	HIS	B	377	0.535	11.690 14		1.00	30.63	
ATOM	2496	CD2	HIS	B	377	1.828	11.559 14		1.00	31.03	
atom atom	2497 2498	ND1 CE1	HIS HIS	B B	377 377	-0.217 0.588	11.086 13		1.00	35.05 33.12	
MOTA	2499	NE2	HIS	В	377	1.833	10.882 13		1.00 1.00	31.06	
ATOM	2500	C	HIS	B	377	0.365	10.237 17		1.00	24.37	
ATOM	2501	0	HIS	В	377	0.321	9.109 16		1.00	21.47	
ATOM	2502	N	LEU	B	378	1.307	10.609 18		1.00	19.24	
ATOM	2503	CA	LEU	В	378	2.365	9.691 18	3.474	1.00	20.09	
ATOM	2504	CB	LEU	В	378	3.363	10.402 19		1.00	18.64	
ATOM	2505	CG	LEU	В	378	4.230	11.489 18		1.00	22.15	
ATOM	2506	CD1	LEU	В	378	5.104	12.148 19		1.00	22.51	
ATOM ATOM	2507 2508	CD2 C	LEU	B B	378 378	5.094	10.885 17		1.00	20.68 18.91	
ATOM	2509		LEU	В	378 378	1.832 2.262	8.433 19 7.320 18		1.00 ·	17.52	
ATOM	2510	N	LEU	В	379	0.888	8.610 20		1.00	18.25	
ATOM	2511	CA	LEU	В	379	0.317			1.00	18.60	
MOTA	2512	CB	LEU	В	379	-0.526	7.989 21	.968	1.00	16.77	
ATOM	2513	CG	LEU	В	379	0,292	8.353 23			17.90	
ATOM	2514		LEU	В	379	-0.578	9.092 24		1.00	15.84	
ATOM	2515	CD2	LEU	B	379	0.851	7,075 23		1.00	22.09	
MOTA MOTA	2516 2517	С 0	LEU	B	379 379	-0.518 -0.476	6.605 19 5.377 19	• •	1.00 1.00	20.17 18.11	
ATOM	2518	Ŋ	GLU	В	380	-1.273	7.222 18		1.00	19.40	
ATOM	2519	CA	GLU-	В	380	-2.086	6.435 18		1.00	20.19	
MOTA	2520	CB	GLU	В	380	-2.994	7.350 17		1.00	22.43	
ATOM	2521	CG	GLÜ	B	380	-4.182	7.874 18	.007	1.00	25.30	
ATOM	2522	CD	GLU	В	380	-5.070	8.789 17		1.00	29.44	
ATOM	2523	OE1	GLU	В	380	-6.206	9.066 17		1.00	31.70	
ATOM		OE2	GLU	В	380	-4.631	9.230 16		1.00	31.75	
MOTA MOTA	2525 2526	C 0	GLU GLU	B B	380 380	-1.210 -1.586	5.594 17		1.00	18.92	
ATOM		И		В	381	-0.039	4.491 16 6.113 16		1.00 0.75	19.83 17.41	
ATOM	2528	N		В	381	-0.035	6.113 16		0.75	17.76	
ATOM		CA		В	381	0.860	5.384 15		0.75	20.19	
MOTA	2530	CA		В	381	0.875	5.407 15		0.25	17.50	
MOTA	2531	CB	ACYS	В	381	1.870	6.342 15		0.75	24.20	
MOTA	2532	CB		В	381	1.830	6.406 15		0.25	16.63	
MOTA	2533	SG		B	381	1.167	7.518 14		0.75	33.54	
ATOM	2534	SG	BCYS	В	381	3.048	5.656 14		0.25	10.36	
ATOM ATOM	2535 2536	C C	ACYS BCYS	B B	381 381	1.626 1.689	4.269 16		0.75	20.59	
ATOM	2537	0	ACYS	В	381	1.737	4.305 16 3.161 16		0.25 0.75	19.19 19.16	
ATOM	2538	Ö	BCYS		381	1.904	3.241 15		0.25	19.25	
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ATOM	2539		ALA	В	382	2.134	4.560 17.785		19.04
ATOM	2540		ALA	В	382	2.955	3.602 18.530	1.00	20.27
ATOM	2541		ALA	В	382	4.135	4.364 19.143	1.00	18.68
MOTA	2542		ALA	В	382	2.356	2.702 19.607	1.00	16,82
ATOM ATOM	2543 2544		ALA TRP	B	382 383	3.070	1.852 20.142	1.00	13.37
ATOM	2545		TRP	В	383	1.074 0.487	2.855 19.916 2.089 21.013	1.00 1.00	15.30
ATOM	2545		TRP	В	383	-1.009	2.410 21.160	1.00	15.80 16.63
ATOM	2547		TRP	В	383	-1.871	1.775 20.129	1.00	19.93
ATOM		· CD2	TRP	В	383	-2.493	0.483 20.198	1.00	20.80
ATOM	2549		TRP	В	383	-3.226	0.309 19.003	1.00	19.27
MOTA	2550	CE3	TRP	В	383	-2.506	-0.542 21.155	1.00	21.32
ATOM	2551	CD1	TRP	B	383	-2.236	2.312 18.933	1.00	18.59
MOTA	2552	NEI	TRP	B	383	-3,051	1.439 18.250	1.00	23.67
ATOM	2553	CZ2	TRP	В	383	-3.963	-0.853 18.733	1.00	21.55
MOTA	2554		TRP	В	383	-3.243	-1.702 20.888	1,00	20.29
MOTA	2555		TRP	В	383	-3.960	-1.844 19.686	1.00	19.03
MOTA	2556	C	TRP	В	383	0.701	0.579 21.020	1.00	17.35
ATOM ATOM	2557 2558	N O	TRP LEU	B B	383 384	0.982 0.568	0.010 22.077 -0.087 19.879	1.00	13.92
ATOM	2559		LEU	В	384	0.368	-1.532 19.903	1.00	14.07 15.98
ATOM	2560	CB	LEU	В	384	0.181	-2.200 18.656	1.00	12.19
ATOM	2561	CG	LEU	В	384	0.173	-3.735 18.720	1.00	12.97
ATOM	2562	CD1	LEU	В	384	-0.352	-4.240 20.089	1.00	10.65
ATOM	2563	CD2	LEU	В	384	-0.707	-4.259 17.586	1.00	17.84
ATOM	2564	C	LEU	В	384	2.262	-1.861 20.034	1.00	14.64
ATOM	2565	0	· LEU	В	384	2.627	-2.833 20.690	1.00	13.78
ATOM	2566	N	GLU	В	385	3.116	-1.046 19.414	1,00	14.96
ATOM	2567	CA	GLU	В	385	4.565	-1.260 19.509	1.00	13.79
ATOM	2568	CB	GLU	В	385	5.336	-0.179 18.739	1.00	15.34
ATOM ATOM	2569 2570	CG	GLU	В	385	5.297	-0.312 17.207	1.00	15.38
MOTA	2571	CD OE1	GLU	B B	385 385	6.162 7.3 81	0.738 16,520	1.00	23.97
ATOM	2572	OE2	GLU	В	385	5.622	0.500 16.358 1.808 16.149	1.00	21.03 22.19
ATOM	2573		GLU	В	385	4.963	-1.161 20.987		15.79
ATOM	2574		GLU	В	385	5.788	-1.942 21.463	1.00	15.04
MOTA	2575		ILE	В	386	4.389	-0.213 21.690	1.00	13.32
ATOM	2576	CA	ILE	B.	386	4.723	-0.019 23.108	1.00	14.06
MOTA	2577		ILE	В	386	4.173	1.326 23.614	1.00	15.36
ATOM	2578		ILE	В	386	4.374	1.451 25.130	1.00	15.97
ATOM	2579		ILE	В	386	4.910	2.476 22.907	1.00	17.95
ATOM	2580		ILE	В	386	4.118	3.768 22.874	1.00	21.12
ATOM	2581		ILE	В	386	4.227	-1.164 23.993	1.00	14.97
ATOM ATOM	2582 2583		ILE LEU	В	386	4.905	-1.560 24.941	1.00	19.60
ATOM	2583 2584		LEU	B B	387 387	3.038 2.516	-1.675 23.709 -2.791 24 478	1.00	15,18
ATOM	2585		LEU	В	387 387	1.070	-2.791 24.478 -3.097 24.080	1.00 1.00	15.98 17.15
ATOM	2586	CG	LEU	В	387	-0.031	-2.113 24.486	1.00	19.65
ATOM	2587		LEU	В	387	-1.371	-2.628 23.972	1.00	17.77
ATOM	2588	CD2	LEU	В	387	-0.075	-1.966 26.002	1.00	15.38
ATOM	2589		LEU	В	387	3,391	-4.013 24.180	1.00	14.69
ATOM	2590		LEU	В	387	3.712	-4.792 25.076	1.00	14.03
ATOM	2591	N	MET	В	388	3.785	-4.178 22.921	1.00	16.43
ATOM	2592	CA	MET	В	388	4.602	-5.329 22.547	1.00	16.67
MOTA	2593	CB	MET	В	388	4.673	-5.460 21.026	1.00	14.83
ATOM	2594	CG	MET	В	388	3.403	-6.066 20.453	1.00	13.91
ATOM ATOM	2595 2596	SD	MET	В	388	3.364	-6.193 18.675	1.00	17.23

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	ATOM	2597		MET	В	388	6.004			20.19
•	MOTA	2598	0	MET	B	388	6.460	- ·	1.00	21.50
	MOTA	2599	N	ILE	В	389	6.707	·	1.00	15.34
	MOTA	2600	CA	ILE	B	389	8.044		1.00	15.59
	MOTA	2601	CB	ILE	B	389	8.836	-2.911 23.322	1.00	14.95
	MOTA	2602	CG2	ILE	В	389	8.330	-1,746 24.158	1.00	12.81
	ATOM	2603	CG1	ILE	В	389	10.325	-3.164 23.602	1.00	17.24
	ATOM	2604	CD1	ILE	B	389	11.228	-1.972 23,357	1.00	15.65
	MOTA	2605	C	ILE	В	389	7.950	-4.446 25.147	1.00	14.30
	ATOM	2606	0	ILE	В	389	8.844	-5.044 25.739	1.00	18.72
	ATOM	2607	N	GLY	В	390	6.855		1.00	13.99
	ATOM	2608	CA	GLY	В	390	6.681		1.00	14.87
	MOTA	2609	C	GLY	В	390	6.444		1.00	18,54
	ATOM	2610	0	GLY	В	390	6.989		1.00	16.54
	ATOM		N	LEU	В	391	5.623		1.00	16.15
	ATOM	2612	CA	LEU	B	391	5.334		1.00	18.91
	ATOM	2613	CB	LEU	В	391	4.332	-8.179 25.699	1.00	19.55
	ATOM	2614	CG	LEU	В	391	4.157		1.00	20.91
	ATOM	2615	CD1	LEU	В	391	3.580		1.00	19.41
	ATOM	2616	CD2	LEU	В	391	3.232	-9.913 24.268	1.00	20.70
	ATOM	2617		LEU	В	391	6.649	-8.518 26.625	1.00	20.70
	ATOM	2618	Õ	LEU	В	391	7.002	-9.352 27.465	1.00	18.66
	ATOM	2619	N	VAL	В	392	7.378	-8.215 25.557	1.00	18.71
	ATOM	2620	CA	VAL	В	392	8,649	-8.868 25.278	1.00	19.51
	ATOM	2621	CB	VAL	В	392	9.288	-8,281 24,005	1.00	23.77
	ATOM	2622	CG1	VAL	В	392	10.751	-8.687 23.920	1.00	24.63
	ATOM	2623	CG2	VAL	В	392	8.520	-8.773 22.767	1.00	19.94
	ATOM	2624	C	VAL	В	392	9.615	-8.707 26.450	1.00	22.80
	ATOM	2625	0	VAL	В	392	10.336	-9.637 26.811	1.00	19.36
	MOTA	2626	N	TRP	В	393	9.617	-7.522 27.046		22.10
	ATOM		CA	TRP	B	393	10.492		1.00	23.20
	ATOM	2628	CB		В	393		-7.241 28.171		
	ATOM	2629		TRP TRP	В	393	10.388	-5.773 28.578	1.00	19.22 22.53
	ATOM	2630	CD2	TRP	В	393		-5.479 29.895	1.00	20.36
	ATOM	2631	CE2	TRP	В	393	12.453	-5.591 30.193	1.00 1.00	
	ATOM	2632		TRP	В		12.624	-5.208 31.545		25.65
	ATOM	2633		TRP	_	393 393	13.578 10.452	-5.976 29.449	1.00	22.12
	ATOM	2634			В	393				23.02
	ATOM	2635		TRP	В	393	11.387			24.91
	ATOM	2636		TRP	В	393	13.876			23.00
	ATOM	2637		TRP TRP	В	393	14.829		1.00	23.98
	ATOM	2638	CM2		В		14.964		1.00	23.20
	ATOM			TRP	В	393	10.208	-8.114 29.388	1.00	24.36
	ATOM	2639		TRP	В	393	11,128	-8.717 29.944	1.00	23.04
		2640		ARG	В	394	8.952	-8.189 29.819	1.00	21,29
	ATOM	2641		ARG	В	394	8.680	-9.003 30.990	1.00	22.43
	ATOM	2642		ARG	В	394	7.365	-8.601 31.667	1.00	23.97
	ATOM	2643		ARG	В	394	6.259	-8.149 30.759	1.00	26.16
	ATOM	2644		ARG	В	394	5.026	-7.727 31:574	1.00	20.86
	ATOM	2645		ARG	В	394	3.817		1.00	19.54
	ATOM	2646		ARG	В	394	3.327		1.00	20.58
	ATOM	2647		ARG	В	394	3.944		1.00	17.41
	MOTA	2648		ARG	В	394		-7.347 29.220	1.00	16.82
	MOTA	2649		ARG	В	394		-10.502 30.713	1.00	21.78
	MOTA	2650		ARG	В	394		-11.294 31.648	1.00	23.44
	ATOM	.2651		SER	В	395		-10.880 29.438	1.00	17.10
	ATOM	2652		SER	В	395		-12.289 29.041	1.00	25.08
	ATOM	2653		SER	В	395		-12.473 27.638		19.47
	ATOM	2654	OG	SER	В	395	6.832	-12.136 27.619	1.00	21.73

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ATOM
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                C
                       SER
                             В
                                 395
                                          10.239 -12.831 29.031
                                                                     1.00
                                                                           26.29
 MOTA
          2656
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                       SER
                             В
                                 395
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                                                  -14.030 28.854
                                                                     1.00
                                                                           23.75
 MOTA
                N.
          2657
                      MET
                             В
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 MOTA
          2658
                CA
                      MET
                             В
                                 396
                                          12.620
                                                  -12.307 29.205
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                                                                           35.07
 ATOM
          2659
                CB
                      MET
                             В
                                 396
                                          13.479
                                                  -11.063 29.423
                                                                    1.00
                                                                           33.84
 MOTA
          2660
                CG
                      MET
                             В
                                 396
                                          14.155
                                                  -10.569 28.171
                                                                    1.00
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 ATOM
                SD
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                                          15.149
                                                    -9.127 28.491
                                                                    1.00
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 MOTA
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                                          16.675
                                                    -9.849 28,998
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MOTA
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MOTA
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MOTA
          2665
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                            В
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                                                  -13.266 31.410
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                                                                           36.19
ATOM
          2666
                CA
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                            B
                                 397
                                          12.604
                                                  -14.206 32.492
                                                                    1.00
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MOTA
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                      GLU
                                 397
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                                                                           44.38
MOTA
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                                                                    1.00
                                                                           54.05
ATOM
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                            В
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MOTA
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MOTA
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                                 397
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                                          13.975
                                                  -13.688 36,013
                                                                    1.00
                                                                           60.82
ATOM
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                C
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                                          11.878
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                                                                    1.00
                                                                           36.65
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                                                                           29.48
ATOM
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                                           8.863
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MOTA
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                      HIS
                            В
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MOTA
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                CD2
                      HIS
                            В
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                                                 -16.801 33.678
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                                                                           29.12
ATOM
         2679
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                                                                    1.00
                                                                           33.27
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                                 398
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                                                 -17.317 29.492
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                                                                           25.95
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                                                 -17.291 28.672
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                                                                           27.47
ATOM
         2684
               Ν
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                                                 -17.801 29.186
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                                                                           29.09
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                                                                          30.81
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                                                 -19.246 27.319
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MOTA
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                                                                    1.00
                                                                          29.18
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                      GLY
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                                                 -19.035 26.071
                                                                    1.00
                                                                          27.45
MOTA
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                      GLY
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                                400
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                                                                    1.00
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                                                 -18,554 26,727
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                                                                          25.50
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                                                 -18.139 27.165
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                                                                          23.45
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               CD
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                                                                          35.47
MOTA
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                            В
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                                                 -21.847 30.635
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                            В
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                                                                          42.39
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               C
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                                401
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                                401
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                                                 -15.872 27.035
                                                                    1.00
                                                                          21.45
MOTA
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               N
                     LEU
                            В
                                402
                                                 -16.181 26.995
                                          5.241
                                                                    1.00
                                                                          23.45
ATOM
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               CA
                      LEU
                            \mathbf{B}
                                402
                                          4.929
                                                 -14.759 26.925
                                                                    1.00
                                                                          21.37
MOTA
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                            В
                                402
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                                                                    1.00
                                                                          18.47
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                                                                    1.00
                                                                          16.89
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                            В
                                402
                                          3.821
                                                 -14.395 23.211
                                                                    1.00
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ATOM
         2709
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                                402
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                                          6.011
                                                 -13.760 24.277
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                                                                          23.15
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                     LEU
                            В
                                402
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MOTA
         2711
               0
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                            В
                                402
                                          3.024 -14.880 28.381
                                                                    1.00
                                                                          18.05
ATOM
         2712
               N
                     LEU
                            B
                                403
                                          4.743 -13.559 29.019
                                                                    1.00
                                                                          19.54
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	MOTA	2713	CA	LEU	В	403	4.099	-13.148	30.259	1.00	20.21
	MOTA	2714	CB	LEU	В	403	5.155	-12.856		1.00	23.16
	ATOM	2715	CG	LEU	B	403	4.639	-12.682		1.00	29.54
•	ATOM	2716	CD1	LEU	В	403	5.519	-13.450		1.00	32.67
	ATOM	2717	CD2	LEU	В	403	4.626	-11.213		1.00	
	ATOM	2718	C	LEU	В	403					32.38
	ATOM		0	LEU			3.219	-11.918		1.00	20.42
		2719			В	403	3.638	-10.787		1.00	19.18
	ATOM	2720	N	PHE	B	404	2.003	-12.145		1.00	21.44
	ATOM	2721	CA	PHE	B	404	1.066	-11.053		1,00	21.69
	ATOM	2722	CB	PHE	B	404	-0.199	-11.598	•	1.00	17.26
	ATOM	2723	CG	PHE	B	404	-0.026	-11.897		1.00	19.75
	ATOM	2724	CD1	PHE	В	404	0.364	-13.167		1.00	17.90
	ATOM	2725	CD2	PHE	B	404	-0.210	-10.897	-	1.00	17.04
	ATOM	2726	CE1	PHE	В	404	0.572	-13.434		1.00	19.88
	ATOM	2727	CE2	PHE	В	404	-0.007	-11.148		1.00	18.47
	ATOM	2728	CZ	PHE	B	404	0.386	-12.418		1.00	16.45
	ATOM	2729	C	PHE	B	404	0.768	-10.403	30.685	1,00	21.95
	ATOM	2730	0	PHE	В	404	0.656	-9.177	30.804	1.00	22.99
	MOTA	2731	N	ALA	B	405	0.670	-11.247	31.702	1.00	21.12
	MOTA	2732	CA	ALA	В	405	0.424	-10.814	33.066	1.00	22.43
	ATOM	2733	CB	ALA	В	405	-1.074	-10.603	33.304	1,00	24.69
	ATOM	2734	C	ALA	В	405	0.959	-11.926	33.962	1.00	22.40
	ATOM	2735	0	ALA .	B	405	1,133	-13.061	33.517	1.00	21.67
	ATOM	2736	N	PRO	В	406	1.246	-11.612	35.230	1.00	25.60
	ATOM	2737	CD	PRO	В	406	1.129	-10.294	35.878	1.00	23.65
	ATOM	2738	CA	PRO	В	406	1.765	-12.632	36.148	1.00	25.91
	MOTA	2739	CB	PRO	В	406	1.899	-11.882	37.475	1.00	27.04
	MOTA	2740	CG	PRO	В	406	2.017	-10.431	37.068	1.00	26.56
	ATOM	2741	C	PRO	B	406	0.876	-13.873	36.259	1.00	25.12
	ATOM	2742	0	PRO	В	406	1.368	-14.967	36.538	1.00	28,92
	ATOM	2743	N	ASN	В	407	-0.426	-13.713	36,039	1.00	23.53
	ATOM	2744	CA	ASN	В	407	-1.345	-14.852	36.109	1.00	24.09
	ATOM	2745	CB	ASN	В	407	-2.553	-14.526	36.986	1,00	24.08
	ATOM	2746	CG	ASN	В	407	-3.327	-13,328	36.486	1.00	26.72
	ATOM	2747	OD1	ASN	В	407	-2.851	-12.574	35.635	1.00	22.65
	ATOM	2748	ND2	asn	В	407	-4.528	-13.140	37.019	1.00	26.46
	MOTA	2749	C	ASN	В	407	-1.820	-15.231	34.714	1.00	26.91
	ATOM	2750	0	ASN	В	407	-2.859	-15.870	34.548	1.00	28.68
	MOTA	2751	Ν-	LEU	В	408	-1.059	-14.816	33.708	1.00	27.28
	ATOM	2752	CA	LEU	₿	408	-1.387	-15.124	32.327	1.00	27.23
	MOTA	2753	CB	LEU	В	408	-2.247	-14.030	31.699	1.00	26.61
	ATOM	2754	CG	LEU	В	408	-2,815	-14.464	30,341	1.00	27.51
	ATOM	2755	CD1	LEU	B	408	-3,702	-15.692	30.546	1.00	28.75
	ATOM	2756	CD2	LEÜ	В	408	-3,598	-13.330	29.694	1.00	25.48
	ATOM	2757	C.	LEU	В.	408	-0.113	-15.316	31.514	1.00	27.56
	ATOM	2758	0	LEŲ	В	408	0.247	-14.465	30.695	1.00	26.86
	ATOM	2759	N	LEU	В	409	0.553	-16.426		1.00	27.54
	ATOM	2760	CA	LEU	В	409		-16.774		1.00	31.96
	ATOM	2761	CB	LEU	В	409		-17.355		1.00	31.88
	ATOM	2762	CG	LEU	B	409		-17.703		1.00	37.72
	ATOM	2763	CD1	LEU	В	409		-16.551		1,00	39.57
	ATOM	2764	CD2	LEU	B	409		-18.018		1.00	41,72
	ATOM	2765	C	LEU	В	409		-17.805		1.00	31.53
	ATOM	2766	Ö.	LEU	В	409		-18.892		1.00	32.67
	ATOM	2767	N.	LEU	В	410		-17.465		1.00	29.58
	ATOM	2768	CA	LEU	В	410	1.228	-18.361		1.00	31.55
	ATOM	2769	CB	LEU	В	410	0.192	-17.672		1.00	29.83
	ATOM	2770	CG	LEU	В	410	-1.047			1.00	28.55
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MOTA	2771	CD1	LEU	B	410		-16.135		1.00	26.92
atom	2772	CD2	LEU	B	410		-18.200		1.60	30.49
MOTA	2773	C	LEU	В	410		-18.839		1.00	33,88
ATOM	2774	0	LEU	B	410		-18.170		1.00	36.49
atom Atom	2775 2776	N	asp Asp	В	411 411		-20.013		1.00	38.80
ATOM	2777	CA CB	ASP	B B	411		-20.562 -21.990		1.00 1.00	38.39
ATOM	2778	CG	ASP	B	411		-22.943		1.00	44.53 44.90
ATOM	2779	OD1	ASP	B	411		-23.035		1.00	45.70
ATOM	2780	OD2	ASP	В	411		-23.603		1.00	50.54
ATOM	2781	e	ASP	B	411		-20.551		1.00	38.57
ATOM	2782	Ó	ASP	В	411		-20.341		1.00	36.48
ATOM	2783	N	ARG	В	412		-20.777		1.00	36.85
MOTA	2784	CA	ARG	В	412		-20.763		1.00	38.32
MOŢA	2785	CB	arg	B	412	4.488	-21.083	20.675	1.00	38.69
MOTA	2786	CG	ARG	B	412	4.361	-22.314	19.799	1.00	40.05
ATOM	2787	CD	ARG	В	412	5.644	-22.552	19.012	1.00	42.98
ATOM	2788	NE	ARG	B	412	5.540	-22.099		1.00	40.95
MOTA	2789	CZ	ARG	B	412	4.649	-22.559		1.00	41.11
ATOM	2790	NHI	ARG	В	412	3.777	-23.490		1.00	44.01
MOTA	2791	NH2	ARG	В	412	4.632	-22.091		1.00	41.28
ATOM	2792	C	ARG	В	412	2.107	-21.712		1.00	37.64
MOTA MOTA	2793 2794	o N	ARG ASN	B B	412 413	1.287	-21.427		1.00	36.51
ATOM	2795	CA	ASN	B	413	2.041 0.974	-22.834 -23.798		1.00	35.32 36.68
ATOM	2796	CB	ASN	В	413	1.170	-25.035		1.00	37.54
ATOM	2797	CG	ASN	В	413	2.017	-26.100		1.00	43.56
ATOM	2798	OD1	ASN	B	413		-26.022		1.00	46.11
MOTA	2799	ND2	ASN	В	413		-27.104		1.00	47.04
ATOM	2800	¢	ASN	В	413		-23.168		1.00	34.01
ATOM	2801	0	ASN	B	413	-1.349	-23.372	21.247	1.00	32.43
MOTA	2802	N	GLN	В	414	-0.447	-22.397	23.063	1.00	32.85
ATOM	2803	ÇĄ	GLN	В	414		-21.741		1.00	31.91
ATOM	2804	CB	GLN	В	414		-21.172		1.00	33.17
ATOM	2805		GLN	В	414		-22.242		1.00	32.31
MOTA	2806		GLN	В	414		-21.667			34.63
ATOM ATOM	2807 2808		GLN GLN	В	414		-21.277		1.00	33.23
ATOM	2809	C C	GLN	B	414 414		-21,606 -20.638		1.00	34.56 29.57
ATOM	2810	o	GLN	В	414		-20.204		1.00	31.32
ATOM		N	GLY	В	415		-20.190		1.00	30.96
ATOM	2812		GLY	В	415		-19.160		1.00	34.27
ATOM	2813		GLY	В	415		-19.725		1.00	35.27
MOTA	2814	0	GLY	В	415		-19.000		1.00	33.20
MOTA	2815	N	LYS	В	416	-2.070	-21.031	19.354	1.00	35.28
MOTA	2816	CA	LYS	В	416	-2.819	-21.707	18.299	1.00	38.26
ATOM	2817	CB	LYS	В	416		-23.177		1.00	38.00
MOTA		CG	LYS	В	416	-0.973	-23.407	17.736	1.00	40.05
ATOM		CD	LYS	В	416		-24.668		1.00	44.10
MOTA		CE	LYS	В	416		-25.541		1.00	41.85
ATOM		NZ	LYS	B	416		-24.760		1.00	45.63
ATOM		C	LYS	В	416		-21.645		1.00	36.93
ATOM ATOM		O	LYS	B	416		-21.790		1.00	38.36
MOTA		N CA	CYS	B B	417		-21.430		1.00	37.10
ATOM		CB	CYS	B	417 417		-21,371 -21.226		1.00	36.46
ATOM		SG	CYS.	В	417		-21.226		1.00	39.01 43.81
ATOM	2828		CYS	В	417		-20.277		1.00	35.19
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NEOM	2000	•	CYS	В		0 100	80 900	10 405		22.00	
atom Atom	2829	0	VAL	B B	417	-8.127			1.00	33.92	• '
ATOM	2830 2831	n Ca	VAL	В	418 418	-6.195 -6.838			1.00	36.04 34.59	
ATOM	2832	CB	VAL	В	418	-6.525	•		1.00 1.00	34.87	
ATOM	2833	CG1	VAL	B	418	-6.831			1.00		•
MOTA	2834	CG2	VAL	B	418	-7.350			1.00	35.32 33.65	
ATOM	2835	C	VAL	B	418	-6.241			1.00	34.17	
ATOM	2836	Ö .	VAL	В	418	~5.020			1.00		
MOTA	2837	Ŋ	GLU	B	419	-7.084			1.00	33.44	
ATOM	2838	CA	GLU	B	419	-6.554			1.00	34.52	
ATOM	2839	CB	GLU	В	419	-7.681			1.66	36.21	
ATOM	2840	CG	GLU	B	419	-8.597			1.00	44.19	
ATOM	2841	CD	GLU	В	419	-9.477			1.00	48.49	
ATOM	2842	OE1	GLU	В	419	-9.157			1.00	51.04	
ATOM	2843	OE2	GLU	B	419	-10.484			1.00	48.91	
MOTA	2844	e	GLU	В	419	-5.717			1.00	32.89	
ATOM	2845	0	GLU	В	419	-6.156			1.00	31.09	
MOTA	2846	N	GLY	В	420	-4.501	-17.562 1		1.00	32.84	
ATOM	2847	CA	GLY	В	420	-3,594	-16.506 1		1,00	34.37	
ATOM	2848	C	GLY	В	420	-2.722	-15.955 1	4.240	1.00	35.30	
MOTA	2849	0	GLY	. B	420	-1.745	-15.246 1	13.975	1.00	35.94	
MOTA	2850	N	MET	В	421	-3.052	-16.285 1	15.486	1.00	30.08	
MOTA	2851	CA	MET	В	421	-2.289	-15,780 1	6.625	1.00	29.22	
ATOM	2852	CB	MET	В	421	-3.108			1.00	22.54	
ATOM	2853	CG	MET	В	421	-2.469			1.00	23.82	
ATOM	2854	SD	MET	B	421	-2.124			1.00	28.40	
ATOM	2855	CE	MET	В	421	-3.697			1,00	24.67	
ATOM	2856	C	MET	В	421	-0.912			1.00	29.67	
ATOM	2857	0	MET	В	421	0.022			1.00	29.76	
ATOM	2858	N	VAL	В	422	-0.766			1.00	30.63	
ATOM ATOM	2859 2860	CA	VAL	В	422	0.524			1.00	29.90	
MOTA	2861	CB CG1	VAL VAL	B B	422 422	0.482 0.514	-19.835 1 -19.992 1		1,00	35.74	
ATOM	2862	CG2	VAL	В	422	1.659	-20.555 1	-	1.00	37.64 31.68	
ATOM	2863	C	VAL	В	422	1.669	-17.640 1		1.00	28.64	
ATOM	2864	0	VAL	В	422	2.788	-17.571 1		1.00	26.15	
ATOM	2865	N	GLU	В	423		-17.113 1		1.00	28.70	
ATOM	2866	CA	GLU	В	423		-16.435 1		1.00	31.34	
ATOM	2867	CB	GLU	В	423		-16.050 1		1.00	36.21	
ATOM	2868	CG	GLU	В	423		-16.376 1		1.00	45.83	
ATOM	2869	CD	GLU	В	423	0.250	-17,865 1	2.144	1.00	46.71	
ATOM	2870	OE1	GLU	B	423	-0.746	-18.368 1	2.706	1.00	45.97	
ATOM	2871	OE2	GLU	В	423	1.045	-18.530 1	1.442	1.00	50.05	
ATOM	2872	C	GLU	В	423	2.928	-15.186 1	4.744	1.00	30.57	
ATOM	2873	0	GLU	B	423		-14.870 1		1.00	26.59	
ATOM	2874	И	ILE	В	424		-14.478 1		1.00	26.19	
ATOM	2875	CA	ILE	В	424		-13.279 1		1.00	26.23	
ATOM	2876	CB	ILE	В	424		-12.435 1		1.00	29.33	
ATOM	2877	CG2	ILE	В	424		-11.315 1		1.00	30.91	
ATOM	2878	CG1	ILE	В	424		-11.817 1		1.00	29.09	
ATOM	2879	CD1	ILE	В	424		-11.514 1		1.00	30.51	
ATOM	2880	C	ILE	В	424		-13.673 1		1.00	24.22	
ATOM	2881	0	ILE	В	424		-13.037 1		1.00	21.05	
ATOM .	2882	N	PHE	В	425		-14.746 1		1.00	21.71	
ATOM	2883	CA	PHE	B	425		-15.236 1		1.00	18.85	
ATOM ATOM	2884	CB	PHE	В	425		-16.479 1		1.00	22.98	
ATOM	2885 2886	CG CD1	PHE	B B	425 425		-16.183 2 -17.112 2		1.00	22.17	
	2000	CDI	PHE	0	743	1.20/	-11.112 3	1./74	1.00	25.47	

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ATOM
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ATOM
          2888
                CE1
                      PHE
                            В
                                 425
                                           0.273 -16.871 22.724
                                                                    1,00
                                                                           24.33
ATOM
                      PHE
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          2889
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                            В
                                          -0.174 -14.749 21.676
                                                                    1.00
                                                                           25.03
ATOM
          2890
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                            B
                                 425
                                          -0.459 -15.684 22.663
                                                                    1.00
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ATOM
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                      PHE
                                           4.817 -15.610 18.885
                C
                            ₿
                                 425
                                                                    1.00
                                                                           20.00
ATOM
          2892
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                      PHE
                            В
                                 425
                                           5.741 -15.292 19.636
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ATOM
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                      ASP
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                                                  -16.281 17.754
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                      ASP
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                                           6.364 -17.510 16.090
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                            В
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                                                                           26.53
ATOM
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                      ASP
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                                           5.992 ~18.965 16.335
                                                                    1.00
                                                                           34.28
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                OD1
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                                           6.242
                                                  -19.467 17.455
                                                                    1.00
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                      ASP
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ATOM
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                            В
                                 426
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          2900
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                            B
                                 426
                                           8.465 -15.526 17.593
                                                                    1.00
                                                                           21.55
ATOM
          2901
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                                 427
                                           6.788
                                                 -14.429 16.591
               N
                            В
                                                                    1.00
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MOTA
          2902
                CA
                      MET
                            ₿
                                 427
                                           7.597
                                                 -13.234 16.382
                                                                    1.00
                                                                           21.02
ATOM
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                CB
                      MET
                            В
                                 427
                                           6.836
                                                 -12.228 15.520
                                                                    1.00
                                                                          18,53
MOTA
          2904
               CG
                            В
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                                           6.864
                                                 -12.559 14.038
                                                                    1.00
                                                                           27.92
MOTA
          2905
                                                                    1.00
               SD
                      MET
                            В
                                 427
                                           6.011 -11.341 13.024
                                                                          32.84
ATOM
          2906
               CE
                                 427
                      MET
                            В
                                           4.363
                                                  -11.532 13.581
                                                                    1.00
                                                                          33.63
MOTA
          2907
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                      MET
                            В
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                                                 -12.616 17.732
                                                                    1.00
                                                                          17,42
ATOM
          2908
               0
                      MET
                            В
                                 427
                                          9.073
                                                 -12.180 17.950
                                                                    1.00
                                                                          22.09
MOTA
          2909
               N
                      LEU
                            В
                                 428
                                           6.968
                                                 -12.597 18.634
                                                                    1.00
                                                                          20.47
ATOM
         2910
               CA
                      LEU
                            В
                                 428
                                          7.157
                                                 -12.033 19.968
                                                                    1.00
                                                                          20.13
ATOM
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                            В
                                 428
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                                                 -11.964 20,706
                                                                    1.00
                                                                          17.58
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         2912
               CG
                      LEU
                            В
                                 428
                                          4.852
                                                 -10.887 20.179
                                                                    1.00
                                                                          18.41
ATOM
         2913
                            В
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                                          3.443
                                                 -11.155 20.687
                                                                    1.00
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                      LEU
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                                          5.324
                                                   -9.505 20.631
                                                                    1.00
                                                                          17.80
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               C
                      LEU
                            В
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                                                 -12.856 20.767
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ATOM
         2916
               0
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                            В
                                428
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                                                 -12.305 21.445
                                                                    1.00
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ATOM
         2917
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                      LEU
                            В
                                429
                                                 -14.178 20.679
                                          8.037
                                                                    1.00
                                                                          20.35
ATOM
         2918
               CA
                      LEU
                            В
                                429
                                          8.938
                                                 -15.082 21.382
                                                                    1.00
                                                                          19.82
ATOM
         2919
               CB
                      LEU
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                                429
                                          8.470
                                                 -16.532 21.211
                                                                    1,00
                                                                          23.13
ATOM
         2920
               CG
                      LEU
                            В
                                429
                                          7.189
                                                 -16.839 21,997
                                                                    1.00
                                                                          21,85
MOTA
         2921
               CD1
                      LEU
                                429
                            В
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                                                 -18.123 21.494
                                                                    1.00
                                                                          25.39
MOTA
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               CD2
                      LEU
                            B
                                429
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                                                 -16.944 23.475
                                                                    1.00
                                                                          24.91
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         2923
               C
                      LEU
                            В
                                429
                                         10.361 -14.936 20.865
                                                                    1.00
                                                                          20.74
ATOM
         2924
               0
                            B
                      LEU
                                429
                                         11.318
                                                 -14.968 21.638
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ATOM
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                      ALA
                            В
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                                                                          21.40
ATOM
         2926
               CA
                      ALA
                            B
                                430
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                                                 ~14.609 18.947
                                                                    i.00
                                                                          22.77
         2927
                                                 -14.596 17.432
ATOM
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                      ALA
                            В
                                430
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                                                                    1.00
                                                                          21.11
MOTA
         2928
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                      ALA
                            В
                                430
                                         12.467
                                                 -13.315 19.440
                                                                    1.00
                                                                          22.40
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         2929
               0
                      ALA
                            В
                                430
                                         13.670
                                                 -13.277 19.713
                                                                    1.00
                                                                          20.62
MOTA
         2930
               N
                      THR
                            В
                                431
                                                 -12.258 19.567
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                                                                    1.00
                                                                          21.09
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         2931
               CA
                      THR
                            В
                                431
                                         12.183
                                                 -10.974 20.021
                                                                    1.00
                                                                          22.67
MOTA
         2932
               CB
                      THR
                            В
                                431
                                         11.128
                                                   -9.866 19.863
                                                                    1.00
                                                                          23.77
ATOM
         2933
               OG1
                      THR
                            B
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                                         10.572
                                                  -9.936 18.547
                                                                    1.00
                                                                          23.84
MOTA
         2934
               CG2
                      THR
                            В
                                431
                                         11.762
                                                  -8.489 20.073
                                                                   1.00
                                                                          21.78
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         2935
               C
                     THR
                            В
                                431
                                         12.603
                                                 -11.037 21.480
                                                                   1.00
                                                                          21.98
ATOM
         2936
               0
                      THR
                            В
                                431
                                         13.595
                                                 -10.429 21.879
                                                                   1.00
                                                                          19.85
ATOM
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               N
                      SER
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                                432
                                         11.844
                                                 -11.773 22.280
                                                                   1.00
                                                                          24.24
                                                 -11.906 23.693
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               CA
                      SER
                            В
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ATOM
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                                                                          28.00
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               OG
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                            В
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                                                 -12.888 25.776
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                                                                          30.31
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                     SER
                            В
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                                                                   1.00
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               0
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                            В
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                                         14.305
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                                                                   1.00
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                     SER
               N
                            В
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                                         13.691 -13.628 22.932
                                                                   1.00
                                                                          29.27
MOTA
                     SER
         2944
               CA
                            В
                                433
                                         14.914 -14.421 22.928
                                                                   1.00
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	ATOM	2945	CB	SER	В	433	14.790	-15.575	21.938	1.00	30.84
	ATOM	2946		SER	В	433	14.761			1,00	38.26
	ATOM	2947	С.	SER	В	433		-13.550		1.00	31.47
	ATOM	2948	' O	SER	В	433		-13.701		1.00	28.43
	ATOM	2949	N	ARG	В	434	15.878			1.00	29.55
•	ATOM	2950	CA	ARG	В	434	16.926			1.00	29.40
	ATOM	2951	Ċ₿	ARG	В	434		-10.912		1.00	31.56
	ATOM	2952	CG	ARG	В	434	17.428		19.493	1.00	36.76
	ATOM	2953	CD	ARG	B	434	18.694	-10.502		1.00	37,76
	ATOM	2954	NE	ARG	В	434	19.654		18.516	1.00	39.50
	ATOM	2955	CZ	ARG	В	434	20.965		18.418	1.00	44.17
	atom	2956	NH1	ARG	В	434	21.492	-10.861	18.696	1.00	43.17
	ATOM	2957	NH2	ARG	B	434	21.750	-8.671	18.048	1.00	43.05
	ATOM	2958	C	ARG	В	434	17.328	-10.827	22.326	1.00	29.15
	ATOM	2959	0	ARG	В	434	18.515	-10.612	22.569	1.00	28.82
	ATOM	2960	· N	PHE	В	435		-10.297	23.039	1.00	24.88
	MOTA	2961	CA	PHE	В	435	16.600		24.186	1.00	25.74
	ATOM	2962	CB	PHE	B	435	15.278		24,825	1.00	26.53
	ATOM	2963	CG	PHE	В	435	14.656		24.183	1.00	30.94
	MOTA	2964	CD1	PHE	В	435	15.118		22.966	1.00	32.65
	ATOM	2965	CD2	PHE	B	435	13.592		24.797	1.00	33.60
	MOTA	2966	CE1	PHE	В	435	14.529		22.372	1.00	36.84
	MOTA	2967	CE2	PHE	B	435	12.997		24.208	1.00	34.96
	ATOM	2968	CZ	PHE	В	435	13.468		22.995	1.00	31.64
	MOTA MOTA	2969 2970	0	PHE PHE	В	435 435	17.426			1.00	25.39
	ATOM	2971	N	ARG	B B	435	18.414	-9.675	25.764	1,00	22.59
	ATOM	2972	CA	ARG	В	436		-12.253		1.00	24.58
	ATOM	2973	CB	ARG	В	436		-13.569		1.00	30.25 33.32
	ATOM	2974	CG	ARG	В	436		-14.358		1.00	38.17
	ATOM	2975	CD	ARG	В	436		-15.367		1.00	37.27
	ATOM	2976	NE	ARG	В	436		-16,085		1.00	43,92
	ATOM	2977	CZ	ARG	В	436		-15.923		1.00	46.68
	ATOM	2978	NH1	ARG	В	436		-15.061		1.00	45.59
	ATOM	2979	NH2	ARG	В	436		-16,620		1.00	46.25
	ATOM	2980	C	ARG	В	436	19.110	-12.531	26.048	1.00	29.82
	ATOM	2981	0	ARG	В	436	20.057	-12.397	26.823	1.00	28.76
	ATOM		N	AMET	В	437	19.269	-12.921	24.789	0.50	30.27
	ATOM	2983	N	BMET	В	437		-12.906		0.50	31.41
	ATOM	2984	CA		В	437		-13.212		0.50	31.98
	ATOM	2985	CA	BMET		437		-13.206		0.50	33.77
	ATOM	2986	CB		В .	437		-13.646		0.50	31.34
	ATOM	2987	CB	BMET	В	437		-13.595		0.50	35.88
	ATOM	2988	CG		В	437		-15.127		0.50	33.62
	ATOM	2989	CG		В	437		-13.594		0.50	40.47
	ATOM	2990	SD		В	437		-16.099		0.50	35.21
	ATOM	2991	SD	BMET		437		-13.937		0.50	46.79
	ATOM ATOM		CE		В	437		-16.194		0.50	33.20
	ATOM		CE		В	437		-15.632		0.50	43.22
	ATOM		C		B B	437 437		-11.993		0.50	33.33
	ATOM		0		B	437 437		-12.005 -12.123		0.50	34.45
	ATOM		0		B	437		-12.123		0.50 0.50	33.54
	ATOM		N	MET	В	437		-12.162		1.00	34.43 32.07
	ATOM		CA	MET	В	438	20.913			1.00	32.48
	ATOM		CB	MET	В	438	20.930			1.00	29.74
	ATOM	3001	CG	MET	В	438	21.161			1.00	36.73
	ATOM	3002		MET	В	438	20.425	-6.849.		1.00	38.21
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	ATOM	3003	CE	MET	В	438	21.693	-5.657 21.943	1,00	35.91
	MOTA	3004	C	MET	В	438	21.877	-9.122 25.738	1.00	28,81
	MOTA	3005	0	MET	В	438	22.686	-8.240 26.013	1.00	30.13
	ATOM	3006	N	ASN	В	439	21.120	-9.721 26.646	1.00	27.14
	MOTA	3007	CA	ASN	B	439	21.199	-9.359 28.038	1.00	27.34
	ATOM	3008	CB	ASN	B	439	22.592	-9.524 28.598	1.00	34.85
	ATOM	3009	CG	ASN	B	439	22.624	-9.480 30.080	1.00	38.58
	ATOM	3010	OD1	ASN	В	439	21.584	-9,620 30.724	1.00	42.99
	ATOM	3011	ND2	ASN	В	439	23.801	-9.260 30.666	1,00	41.14
	ATOM	3012	C	ASN	B	439	20.745	-7.903 28.212	1.00	26.24
	MOTA	3013	0	ASN	В	439	21.396	-7.106 28.891	1.00	19.76
	MOTA	3014	N	LEU	В	440	19.625	-7.564 27.573	1.00	24.90
•	MOTA	3015	CA	LEU	В	440	19.061	-6.214 27.633	1.00	25.04
	ATOM	3016	CB	LEU	В	440	17.761	-6.157 26.818	1.00	22.36
	ATOM	3017	CG	LEU	B	440	17.087	-4.786 26.740	1.00	26.33
	ATOM	3018	CD1	LEU	В	440	17.958	-3.843 25.923	1.00	28.33
	MOTA MOTA	3019 3020	CD2 C	LEU LEU	B B	440 440	15.704	-4.914 26.111	1,00	24.81
	ATOM	3021	0	LEU	В	440	18.782 18.131	-5.785 29.074 -6.504 29.830	1.00	24.71
	ATOM	3021	N	GLN	В	441	19.268	÷4.609 29.452	1.00	26.96 25.54
	ATOM	3023	CA	GLN	В	441	19.060	-4.099 30.807	1.00	25.82
	ATOM	3024	CB	GLN	B	441	20.250	-3.231 31.234	1.00	30.41
	ATOM	3025	CG	GLN	В	441	21.572	-3.956 31.228	1.00	30.50
	ATOM	3026	CD	GLN	В	441	21.610	-5.028 32.279	1.00	32.75
	ATOM	3027	OE1	GLN	В	441	21.539	-4.772 33,473	1.00	36.52
	ATOM	3028	NE2	GLN	B	441	21.703	-6.288 31.823	1.00	31.09
	ATOM	3029	C	GLN	В	441	17.789	-3.265 30.883	1.00	26.93
	ATOM	3030	0	GLN	В	441	17.303	-2.768 29.866	1.00	25.40
	ATOM	3031	N	GLY	В	442	17.266	-3.105 32.096	1.00	24.56
	ATOM	3032	CA	GLY	В	442	16.058	-2.327 32.293	1.00	22.82
	ATOM	3033	C	GLY	В	442	16.217	-0.873 31.885	1.00	24.19
	ATOM	3034	0 .	GLY	В	442	15.290	-0.279 31.341	1.00	20.21
	ATOM	3035	N	GLU	B	443	17.387	-0.293 32.141	1.00	22.92
	ATOM	3036	CA	GLU	В	443	17.635	1.102 31,778	1.00	23.33
	ATOM	3037	CB	GLU	В	443	18.960	1.590 32.378	1.00	24.26
	ATOM	3038	CG	GLU	В	443	19.005	1,525 33.895	1.00	32.31
	ATOM	3039	CD	GLU	В	443	19.701	0.270 34.402	1.00	37.68
	ATOM ATOM	3040		GLU GLU	В	443	19.343	-0.841 33.948		35.23
	ATOM	3041 3042	C	GLU	B B	443 443	20.607 17.6 6 2	0.394 35.252 1.278 30.262	1.00	42.47
	MOTA	3042	0	GLU	В	443	17.862	2.328 29.747	1.00	23.08
	ATOM	3044	N	GLU	В	444	18.128	0.253 29.552	1.00	21.80 21.16
	ATOM	3045	CA	GLU	В	444	18.182	0.302 28.093	1.00	22.60
	ATOM	3046	CB	GLU	В	444	19.046	-0.834 27.545	1.00	20.89
	ATOM	3047	ÇG	GLU	В	444	20.545	-0.617 27.705	1.00	23.24
	ATOM	3048	CD	GLU	В	444	21.340	-1.869 27.393	1.00	22:11
•	ATOM	3049	OE1	GLU	В	444	20.817	-2.978 27.629	1.00	20.89
	ATOM	3050	OE2	GLU	В	444	22.488	-1.746 26.914	1.00	25.49
	ATOM	3051	C	GLU	В	444	16.758	0.155 27.552	1.00	21.06
	ATOM	3052	0	GLU	В	444	16.377	0.822 26.597	1.00	23.73
	ATOM	3053	N	PHE	В	445	15.987	-0.730 28.176	1.00	19.01
	ATOM	3054	CA	PHE	В	445	14.600	-0.969 27.792	1.00	19.44
	ATOM	3055	CB	PHE	В	445	13.989	-2.067 28.675	1,00	18.12
	ATOM	3056	CG	PHE	В	445	12.483	-2.055 28.709	1.00	18.13
	ATOM	3057	CD1	PHE	В	4,45	11.746	-2.386 27.575	1.00	18.34
	ATOM	3058	CD2	PHE	В	445	`11.802	-1.694 29.872	1.00	16.59
	ATOM	3059	CE1	PHE	В	445	10.346	-2.359 27.592	1.00	17.15
	MOTA	3060	CE2	PHE	В	445	10.406	-1.662 29.903	1.00	21.99

MOTA	3061		PHE	В	445	9.674	-1.997 28.7	755 1.00	16.01
MOTA	3062	e	PHE	В	445	13,758	0.304 27.8	188 1.00	15.87
ATOM	3063	0	PHE	B	445	13.008	0.617 26.9	66 1.00	20.27
ATOM	3064	N	VAL	B	446	13.872	1.044 28.5	86 1.00	15.90
ATOM	3065	CA	VAL	В	446	13.074	2.269 29.1		16.78
ATOM	3066		VAL	В	446	13.165	2.895 30.5		18.32
							1.923 31.5		
ATOM	3067		VAL	В	446	12.574			21.14
ATOM	3068	CG2	VAL	В	446	14.598	3.251 30.8		21.04
MOTA	3069	C	VAL	B	446	13.450	3.295 28.0		17.91
atom	3070	0	VAL	B	446	12.596	4.028 27.5		19.37
Mota	3071	N	CYS	B	447	14.723	3.335 27.6	74 1.00	18.81
ATOM	3072	CA	CYS	B	447	15.161	4.255 26.6	35 1.00	17,34
ATOM	3073	CB	CYS	В	447	16.682	4.224 26.5	12 1.00	19.33
ATOM	3074	SĢ	CYS	В	447	17.538	5.134 27.7		23.60
ATOM	3075	C	CYS	В	447	14.537	3.826 25.3		18.09
ATOM	3076	0	CYS	В	447	13.988	4.643 24.5		17.52
ATOM	3077								
		N	LEU	В	448	14.623	2.533 25.0		15.60
MOTA	3078	CA	LEU	В	448	14.072	1.994 23.7		16.67
MOTA	3079	CB	LEU	B	448	14.328	0.490 23.6		14.82
atom	3080	CG	LEU	В	448	15.730	0.009 23.3		23.57
MOTA	3081	CD1	LEU	В	448	15.722	-1.522 23.1		21.61
MOTA	3082	CD2	LEU	В	448	16.167	0.658 21.9	86. 1.00	18.92
ATOM	3083	C	LEU	В	448	12.573	2.249 23.6	52 1.00	15.98
ATOM	3084	0	LEU	В	448	12.078	2.633 22.5	90 1.00	18.91
ATOM	3085	N	LYS	В	449	11.849	2.037 24.7		17.94
ATOM	3086	CA	LYS	В	449	10.405	2.232 24.7		16.66
ATOM	3087	CB	LYS	В	449	9.796	1.745 26.0		16.45
ATOM	3088	CG	LYS	В	449	8.285	1.861 26.1		16.12
ATOM	3089	CD	LYS	В.	449	7.730	0.952 27.1		19.09
ATOM	3090	CE	LYS	В	449	8.201	1.380 28,5		
									. 17.04
ATOM	3091	NZ	LYS	В	449	7.159	1.088 29.5		17.25
Aţom	3092	C	LYS	В	449	10.058	3,696 24.4		18.78
ATOM	3093	0	LYS	В	449	9.103	3,996 23.7		14.84
ATOM	3094	N	SER	В	450	10.837	4.610 25.0		14.50
ATOM	3095	CA	SER	В	450	10.591	6.032 24.8	49 1.00	17,11
ATOM	3096	CB	SER	B	450	11.440	6.866 25.8	15 1.00	21.20
MOTA	3097	06	SER	B	450	10.859	6.868 27.1	08 1.00	30,66
ATOM	3098	Ç	SER	B	450	10,921	6.418 23.4	05 1.00	17.84
ATOM	3099	0	SER	₿	450	10.279	7.292 22.8	21 1.00	18.82
ATOM	3100	N	ILE	В	451	11.926	5,768 22,8		16.88
ATOM	3101	CA	ILE	В	451	12.305	6.063 21.4		17,11
MOTA	3102	CB	ILE	В	451	13.564	5.268 21.0		16.69
ATOM	3103	CG2	ILE	В	451	13.724	5.298 19.5		19.31
ATOM	3104	CG1	ILE	В	451	14.804	5.897 21.6		18.96
ATOM	3105	CD1	ILE	В					
					451	16.083	5.130 21.4		18.98
ATOM	3106	C	ILE	В	451	11.142	5.711 20.5		18.09
ATOM	3107	0	ILE	В	451	10.820	6.464 19.6		17.07
MOTA	3108	И	ILE	В	452	10.505	4.571 20.7	86 1:00	18.13
ATOM	3109	CA	ILE	B	452	9.373	4,137 19.9	76 1.00	16.77
ATOM	3110	CB	ILE	B	452	8.804	2.775 20.4	77 1.00	17.40
ATOM	3111	CG2	ILE	В	452	7.464	2.496 19.83	31 1.00	14.33
ATOM	3112	CG1	ILE	В	452	9.763	1.635 20.1		15.36
ATOM	3113	CD1	ILE	B	452	9.449	0.323 20.8		17.76
ATOM	3114	C	ILE	В	452	8.271	5.195 20.0		17.47
ATOM	3115	ō	ILE	В	452	7.733	5.586 18.99		16.50
ATOM	3116	N	LEU	В	453	7.943	5.665 21.2		16.06
ATOM	3117	CA	LEU	В	453	6.903	6.680 21.3		
ATOM							•		17.17
W T OIM	3118	CB	LEU	В	453	6.736	7.061 22.8	50 1.00	16.23

MOTA	3119	CG	LEU	B	.453	5,792	8.228 23.163	1.00	17.60
MOŢA	3120	CD1	LEU	B	453	4.388	7.881 22.704	1.60	16.94
ATOM	3121	CD2	LEU	В	453	5.816	8.538 24.667	1,00	17.17
atom	3122	C	Leu	B	453	7.198	7.941 30.566	1.00	19.33
ATOM	3123	O	Leu	В	453	6.320	8.458 19.879	1.00	21.37
MOTA	3124	N	LEU	B	454	8.434	8.428 20.636	1.00	17.68
MOTA	3125	CA	LEU	B	454	8.789	9.653 19.933	1.00	20.93
MOTA	3126	CB	LEU	В	454	9.959	10.347 20.653	1.00	24.33
ATOM	3127	CG	LEU	B	454	9.735	10.699 22.130	1.00	26.16
MOTA	3128	CD1	LEU	B	454	11.046	11.170 22.749	1.00	24.82
MOTA	3129	CD2	LEU	В	454	8.658	11.777 22.259	1.00	23.79
ATOM	3130	C	LEU	B	454	9,120	9,494 18.449	1.00	20,75
ATOM	3131	0	LEU	B	454	8.941	10.431 17.673	1.60	21.33
MOTA	3132	N	asn	В	455	9.566	8.311 18,042	1.00	20.54
ATOM	3133	CA	ASN	В	455	9.951	8.093 16.651	1.00	19.46
ATOM	3134	CB	ASN	В	455	11.147	7.149 16.584	1.00	18.58
ATOM	3135	CG	ASN	В	455	11.576	6.871 15.161	1.00	17.64
ATOM	3136	OD1	ASN	B	455	12.106	7.749 14.496	1.00	18.40
ATOM	3137	ND2	ASN	В	455	11.343	5,648 14.686	1.00	15.06
ATOM	3138	C	ASN	В	455	8.925	7.580 15.655	1.00	22.77
ATOM	3139	O .	ASN	B	455	8.790	8.127 14,564	1.00	21.94
ATOM	3140	N	SER	В	456	8.224	6.514 16.023	1.00	25.90
ATOM	3141	CA	SER	В	456	7.260	5.873 15.135	1.00	24.76
MOTA	3142	CB	SER	B	456	6.402	4.894 15.939	1.00	26.91
MOTA	3143	OG	SER	В	456	7.212	3.818 16,390	1.00	26.24
ATOM	3144	C	SER	В	456	6.385	6.774 14.272	1.00	26.52
MOTA	3145	0	SER	В	456	6.323	6.588 13.055	1.00	29.22
MOTA	3146	N	GLY	B	457	5.716	7.750 14.872	1.00	22.07
MOTA	3147	ÇA	GLY	В	457	4.879	8.627 14.076	1.00	25.19
MOTA	3148	C	GLY	B	457	5.510	9.973 13.765	1.00	28.59
MOTA	3149	0	GLY	₿	457	4.851	10.850 13.214	1,00	28.31
ATOM	3150	N	VAL	В	458	6.789	10.130 14.092	1.00	31.65
ATOM	3151	CA	VAL	В	458	7.486	11.396 13.879	1.00	38.50
ATOM	31,52	CB	VAL	\mathbf{B}	458	8.950	11.310 14.373	1.00	36.24
ATOM	3153	CG1	LAV	В	458	9,827	10.650 13.324	1.00	38.50
ATOM	3154	CG2	VAL	В	458	9.463	12.699 14.701	1.00	39.84
ATOM	3155	C	VAL	B	458	7.483	11.982 12.464	1.00	46.30
ATOM	3156	0	VAL	В	458	7.567	13.201 12.302	1.00	47.67
ATOM	3157	N	TYR	В	459	7.393	11.138 11.442	1.00	50.45
ATOM	3158	CA	TYR	B	459	7.385	11.640 10.069	1.00	57.07
ATOM	3159	CB.	TYR	B	459	8.233	10.740 9.170	1.00	57.05
ATOM	3160	CG	TYR	В	459	9.673	10.680 9.611	1.00	59.29
ATOM	3161	CD1	TYR	В	459	10.284	11.786 10.203	1.00	60.93
ATOM	3162	CE1	TYR	В	459	11.591	11.725 10.662	1.00	61.86
ATOM	3163	CD2	TYR	В	459	10.414	9.510 9.486	1.00	59.46
ATOM	3164	CE2	TYR	В	459	11.726	9.439 9.943	1.00	59.67
ATOM	3165	CZ	TYR	B	459	12.305	10.548 10.532	1.00	60.84
ATOM	3166	ОН	TYR	В	459	13.593	10.477 11.009	1.00	61.39
ATOM	3167	C	TYR	В	459	5.976	11.753 9.514	1.00	61.22
ATOM	3168	0	TYR	В	459	5,629	12.750 8.874	1.00	62.89
ATOM	3169	N	THR	В	460	5.166	10.730 9.768	1.00	65.15
ATOM	3170	CA	THR	В	460	3.783	10.702 9.309	1.00	67.76
ATOM	3171	CB.	THR	В	460	3.178	9.283 9.464	1.00	68,02
ATOM	3172	OG1	THR	В	460	1.890	9.235 8.836	1.00	67.03
ATOM	3173	CG2	THR	В	460	3.040	8.916 10.938	1.00	67.31
ATOM	3174	C	THR	B	460	2.945	11.700 16.107	1.00	70.14
ATOM	3175	0 .	THR	В	460	1.715	11.641 10.099	1.00	72.35
ATOM	3176	N	PHE	В	461	3.625	12.620 10.788	1.00	72,64

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ATOM	3177		PHE	В	461	2.969	13.637 11.607		75.05
ATOM	3178		PHE	B	461	3.977		1.00	75.47
MOTA	3179		PHE	В	461	4.235	14.789 13.492	1.00	74.32
ATOM	3180		PHE	В	461	3.200	14.609 14.404	1.00	73.98
MOTA	3181		PHE	B	461	5.517	15.025 13.975	1.00	75.22
ATOM	3182		PHE	B	461	3.438	14.662 15.775	1.00	74.02
MOTA	3183		PHE	В	461	5,765	15.080 15.344	1.00	74.50
MOŢA	3184		PHE	B	461	4.722	14.897 16.245	1.00	74.10
MOTA	3185		PHE	В	461	1.787	14.286 10.896	1.00	76.78
MOTA	3196		PHE	В	461	1.775	14.279 9.645	1.00	77.08
MOTA	3187		GLU	₿	470	7.873	23.789 14.718	1,00	80.19
MOTA	3188	C	GLU	В	470	8.958	21.731 15.650	1.00	79.30
ATOM	3189	0	GLU	B	470	9.887	21.518 16.432	1.00	78.21
ATOM	3190	N	GLU	B	470	9.096	22.235 13.227	1.00	80.22
ATOM	3191	CA	GLU	B	470	9.060	22,830 14.595	1.00	80.03
ATOM	3192	N	GLU	В	471	7.823	21.037 15.665	1.00	78.31
MOTA	3193	CA	GLU	B	471	7.596	19.956 16.617	1,00	75.83
ATOM	3194	CB	GLU	В	471	6.118	19.543 16.604	1.00	76.70
MOTA	3195	CG	GLU	В	471	5.742	18.544 15.516	1.00	78.42
ATOM	3196	CD	GLU	В	471	5.062	19.198 14.327	1.00	79.69
ATOM	3197	OE1	GLU	В	471	3.829	19.398 14.378	1.00	80.26
MOTA	3198	OE2	GLU	В	471	5.763	19.511 13.340	1.00	80.72
ATOM	3199	С	GLU	В	471	8.487	18.756 16.292	1.00	73.13
ATOM	3200	0	GLU	В	471	8.897	18.021 17.189	1.00	73.86
ATOM	3201	N	LYS	В	472	8.785	18.565 15.009	1.00	69.65
ATOM	3202	CA	LYS	B	472	9.639	17.461 14.581	1.00	64.40
MOTA	3203	CB	LYS	В	472	9.578	17.293 13.060	1.00	63.78
ATOM	3204	CG	LYS	В	472	8.343	16.552 12.566	1.00	64.49
ATOM	3205	CD	LYS	В	472	8.544	16.002 11.161	1,00	63,81
ATOM	3206	CE	LYS	В	472	7.379	16.368 10.249	1.00	.64.90
ATOM	3207	NZ	LYS	В	472	6.475	15.212 9.990	1.00	63.97
ATOM	3208	C	LYS	В	472	11.071	17.749 15.014	1.00	61.03
ATOM	3209	0	LYS	В	472	11.848	16.833 15.287	1.00	60.28
ATOM	3210	N	ASP	В	473	11.413	19.033 15.076	1.00	56.84
ATOM	3211	CA	ASP	В	473	12.745	19.451 15.488	1.00	51.69
ATOM	3212	CB	ASP	В	473	12.923	20.940 15.242	1.00	50.36
ATOM	3213	С	ASP	В	473	12.923	19.138 16.970	1.00	49.18
ATOM	3214	0	ASP	В	473	13.959	18.619 17.385	1.00	46.85
ATOM	3215	N	HIS	В	474	11.898	19.449 17.758	1.00	45.35
ATOM	3216	CA	HIS	В	474	11.923	19.203 19.196	1.00	43.65
ATOM	3217	CB	HIS	В	474	10.652	19.761 19.847	1.00	43;70
ATOM	3218	CG	HIS	В	474	10.458	19.326 21.267	1.00	43,86
ATOM	3219	CD2	HIS	В	474	11.095	19.688 22.406	1.00	44.12
ATOM	3220	NDL	HIS	В	474	9.510	18.395 21.638	1.00	46.60
ATOM	3221	CEL	HIS	В	474	9.572	18.202 22.943	1.00	45.29
ATOM	3222	NE2	HIS	В	474	10.526	18.975 23.434	1.00	47.96
ATOM	3223	C	HIS	В	474	12.030	17.707 19.471	1.00	42.38
ATOM	3224	ö	HIS	B	474	12.834	17.273 20.298	1.00	42.83
ATOM	3225	N	ILE	В	475	11.214	16.923 18.773	1.00	38.86
ATOM	3226	CA	ILE	В	475	11.222			
ATOM	3227	CB	ILE	В	475	10.105	15.475 18.943 14.822 18.110	1.00	36.53
ATOM	3228	CG2	ILE	B	475	10.105		1.00	36.56
ATOM	3229	CG1	ILE				13.335 17.911	1.00	36.17
ATOM	3239 3230	CD1	ILE	В	475	8.770	14.998 18.832	1.00	35.81
ATOM				В	475	7.598	14.410 18.094	1.00	41.77
ATOM	3231	C	ILE	B	475	12.575	14.898 18.532	1.00	33.72
ATOM	3232 3233	0	ILE	В	475	13.112	14.023 19.207	1.00	31.50
ATOM		N Ca	HIS	В	476	13.121	15.375 17.429	1.00	33.65
MIOM	3234	CA	HIS	В	476	14.421	14.886 16.992	1.00	33.31

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MOTA	3235		HIS	В	476	14.782		15,637	1.00	37.30
ATOM	3236	ee ebo	HIS	₿	476	14.132		14.486	1.00	43.64
mota Mota	3237 3238	CD2 ND1	HIS HIS	В	476	13.723		14.342	1.00	45.25
ATOM	3239	CE1	HIS	B	476 476	13.816 13.238		13.306 12.484	1.00	48.37
ATOM	3240	NE2	HIS	B	476	13.230		13.089	1.00	48.87 48.11
ATOM	3241	C	HIS	В	476	15.506		18.022	1.00	31.20
ATOM	3242	Q	HIS	В	476	16.442		18.208	1.00	27.25
ATOM	3243	N	ARG	В	477	15.387		18.684	1.00	30.64
ATOM	3244	CA	ARG	B	477	16.361	16.754	19.703	1.00	30.09
ATOM	3245	CB	ARG	В	477	16.144		20.121	1.00	33.46
ATOM	3246	CG	ARG	В	477	16.322		18.982	1.00	40.74
ATOM	3247	CD	ARG	В	477	16.274		19.479	1.00	45.91
ATOM ATOM	3248	NE CZ	ARG	В	477	17.514		20.155	1.00	51.37
ATOM	3249 3250	NH1	ARG ARG	`B B	477 477	18,375 18.140		19.702 18.560	1.00	53.68 53.04
ATOM	3251	NH2	ARG	В	477	19.480		20.389	1.00	51.79
ATOM	3252	C	ARG	В	477	16.232	15.835		1.00	26.97
ATOM	3253	0	ARG	В	477	17.233	15.387		1.00	27.34
ATOM	3254	N	VAL	В	478	14.999	15.558	21.338	1.00	23.70
ATOM	3255	CA	VAL	В	478	14.780	14.685		1.00	24.79
ATOM	3256	CB .	VAL	В	478	13.286	14.613		1.00	24.83
MOTA	3257	CG1	VAL	В	478	13.088	13.646		1.00	26.23
ATOM ATOM	3258 3259	CG2 C	VAL VAL	B B	478 478	12.781 15.284	15.996		1.00	28.26
ATOM	3250	0	VAL	B	478	15.204	13.294 12.613		1.00	26.10 24.28
ATOM	3261	N	LEU	В	479	15.021	12.889		1.00	22.92
ATOM	3262	CA	LEU	В	479	15.456	11.584		1.00	21.96
ATOM	3263	CB	LEU	В	479	14.992	11.372	18.930	1.00	22.63
MOTA	3264	CG	LEU	В	479	13.575	10.798	18.756	1.00	20.82
MOTA	3265	CD1	LEU	В	479	13.231	10.689		1.00	22.53
ATOM	3266	CD2	LEU	В	479	13.495		19.420	1.00	23.08
ATOM ATOM	3267 3268	С О	LEU	B B	479 479	16.975 17.506	11.471 10.416		1.00	21.90 23.11
ATOM	3269	N	ASP	В	480	17.675	12.560		1.00	23,11
ATOM	3270	CA	ASP	В	480	19,141	12.566		1.00	24.29
ATOM	3271	CB	ASP	В	480	19.692	13.889		1.00	26.88
MOTA	3272	CG	ASP	В	480	19.773	13.914		1.00	33.32
ATOM	3273	OD1	ASP	В	480	19.857	12.836	17.499	1.00	35.44
ATOM	3274	OD2	ASP	В	480	19.757	15.022		1.00	32.44
ATOM ATOM	3275	C	ASP	В	480	19.590	12.406		1,00	24.13
MOTA	3276 3277	O N	ASP LYS	B B	480 481	20.551 18.887	11.697 13.077		1.00	24.88
ATOM	3278	CA	LYS	В	481	19.213	13.010		1.00	25.18 26.78
MOTA	3279	CB	LYS	В	481	18.262	13.898		1.00	31.37
ATOM	3280	CG	LYS	В	481	18.962	14.788		1.00	43.84
MOTA	3281	CD	LYS	В	481	18.780	14.260		1.00	46.08
MOTA	3282	CE	LYS	В	481	20.120	13.928	27.865	1.00	50.99
MOTA	3283	NZ	LYS	В	481	21.177	14.922		1.00	54.35
ATOM	3284	C	LYS	В	481	19.124	11.575		1.00	26.87
ATOM	3285	O N	LYS	В	481	19.951	11.145		1.00	20.37
MOTA MOTA	3286 3287	N CA	ILE ILE	B B	482 482	18.124 17.981	10.830		1,00	23.26
ATOM	3288	CB	ILE	В	482	16.655	9,452 8.828		1.00	21.07 19.80
ATOM	3289	CG2	ILE	В	482	16.580	7.370	•	1.00	17.40
ATOM	3290	CG1	ILE	В	482	15.479	9.606		1.00	17.16
ATOM	3291	CD1	ILE	В	482	14.136	9.209		1.00	19.43
MOTA	3292	С	ILE	В	482	19.135	8.616	23.947	1.00	20.21

ATOM	3293	0	ILE	Ð	482	10 601	7 700	34 640	1 00	25 55
MOTA	3294	Ŋ	THR	B B	483	19.621 19.569		24.640	1.00	25.55
ATOM	3295	CA	THR	В	483	20.701		22.141	1.00	21.89 22.67
MOTA	3296	CB	THR	В	483	21.030		20.695	1.00	23.34
ATOM	3297	OG1	THR	В	483	19.890	•	19.851	1.00	27.33
ATOM	3298	CG2	THR	В	483	22.203		20.116	1.00	24.46
ATOM	3299	C	THR	В	483	21.913		23.035	1.00	23.51
ATOM	3300	0	THR	В	483	22.650		23.381	1.00	27.01
ATOM	3301	N	ASP	B	484	22.119		23.404	1.00	22.88
ATOM	3302	CA	ASP	В	484	23.237		24.276	1.00	24.93
ATOM	3303	CB	ASP	В	484	23.201		24.652	1.00	28.69
AŢOM	3304	CG	ASP	В	484	23.504		23.485	1.00	29.19
ATOM	3305	OD1	ASP	В	484	23.982		22.437	1.00	29.63
ATOM	3306	OD2	ASP	В	484	23.256		23.627	1.00	32.02
ATOM	3307	C	ASP	В	484	23.125	9.249	25.567	1,00	24.40
ATOM	3308	0	ASP	В	484	24.125	8.780	26.103	1.00	25.60
ATOM	3309	N	THR	В	485	21.899	9.096	26.066	1.00	20.16
atom	3310	CA	THR	В	485	21.670	8.365	27.307	1.00	22.28
ATOM	3311	CB	THR	B	485	20.203		27.763	1.00	24.64
MOTA	3312	OG1	THR	B	485	19.878		27,830	1.00	24.28
ATOM	3313	CG2	THR	В	485	19.993		29.133	1.00	23.32
MOTA	3314	C	THR	В	485	22.017		27.188	1.00	22.13
ATOM	3315	0	THR	В	485	22.574		28.115	1.00	23.30
ATOM	3316	N	LEU	В	486	21.686		26.045	1.00	23.08
MOTA MOTA	3317 3318	CA CB	LEU LEU	B B	486	21.969		25.792	1.00	22.26
ATOM	3319	CG	LEU	B	486 486	21.346 19.878		24.464 24.533	1.00	20.93
ATOM	3320	CD1	LEU	B	486	19.878		23.123	1.00 1.00	24.92 21.96
ATOM	3321	CD2	LEU	В	486	19.763		25.125	1.00	23.90
ATOM	3322	C	LEU	В	486	23.477		25.742	1.00	24.12
ATOM	3323	ō	LEU	В	486	23.984		26.334	1.00	24.02
ATOM	3324	N	ILE	В	487	24.191		25.022	1.00	24.53
ATOM	3325	CA	ILE	В	487	25.640		24.913	1.00	25.16
ATOM	3326	CB	ILE	В	487	26.207	6.379	23.899	1.00	25.57
ATOM	3327	CG2	ILE	В	487	27.725	6.522	24.051	1.00	24.54
ATOM	3328	CG1	ILE	В	487	25.857		22.470	1,00	25.63
ATOM	3329	CD1	ILE	В	487	26.538		22.021	1.00	25.68
ATOM	3330	C	ILE	В	487	26.275		26.307	1.00	23.60
ATOM	3331	0	ILE	B	487	27.200		26.671	1.00	23.65
ATOM	3332	N	HIS	В	488	25.755		27.081	1.00	21.75
ATOM ATOM	3333	CA	HIS	В	488	26.251		28.431	1.00	26.07
ATOM	3334 3335	CB	HIS HIS	B	488	25.450		29.041	1.00	26.99
ATOM	3336	CG CD2	HIS	B B	488 488	25.818 25.245		30.455	1.00	33.06
ATOM	3337	ND1	HIS	В	488	26.869		31.629 30.779	1.00	32.79
ATOM	3338	CE1	HIS	В	488	26.927		32.091	1.00	36.45 35.93
ATOM	3339	NE2	HIS	В	488	25.953		32.630	1.00	33.88
ATOM	3340	C	HIS	В	488	26,123		29.292	1.00	26.85
ATOM	3341	0	HIS	В	488	27.071		29.967	1.00	28.52
ATOM	3342	N	LEU	В	489	24.949		29.266	1.00	28.00
ATOM	3343	CA	LEU	В		24.715		30.040	1.00	25.94
ATOM	3344	CB	LEU	В	489	23.298		29.788	1.00	27.07
ATOM .	3345	CG	LEU	В	489	22.158		30.445	1.00	31.71
MOTA	3346	CD1	LEU	В	489	20.827		29.799	1.00	28.08
ATOM	3347	CD2	LEU	В	489	22.143		31.949	1.00	29.30
ATOM	3348	C	LEU	В	489		2.561		1.00	26.84
AŢOM	3349	0	LEU	В	489	26.241		30.486	1.00	20.86
ATOM	3350	N	MET	B	490	25.978	2.453	28.345	1.00	23.82

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AŢOM	3351	CA	MET	В	490	26.900	1.438 27.857	1.00	26.38	
MOŢA	3352	CB	MET	В	490	26.775	1.306 26.336	1.00	27.29	
ATOM	3353	CG	MET	В	490	25.418	0.776 25.895	1.00	21.68	
ATOM	3354	SD	MET	В	490	25.208	0.739 24.106	1.00	26.30	
MOTA	3355	CE	MET	B	490	23.461	0.412 24.022	1.00	19.66	
MOTA	3356	C	MET	B	490	28.341	1,743 28.247	1.00	26.43	
MOTA	3357		MET	В	490	29.109	0.833 28,574	1.00	24.76	
ATOM	3358		ALA	В	491	28.713	3.018 28.207	1.00	26.67	
ATOM	3359		ALA	B	491	30.074	3.394 28.577	1.00	30.73	
ATOM	3360		ALA	B	491	30.299	4.882 28.335	1.00	26.66	
atom	3361		ALA	B	491	30.250	3.053 30.056	1.00	32.08	
MOTA	3362		ALA	B	491	31.194	2.361 30.438	1.00	34.66	
MOTA	3363		LYS	В	492	29.316	3.523 30.878	1.00	33,17	
MOTA	3364		LYS	B	492	29.354	3.267 32.309	1.00	32.82	
ATOM	3365		LYS	В	492	28.110	3.849 32.976	1.00	36,38	
ATOM	3366		LYS	В	492	28.412	4.797 34.123	1.00	38.68	
ATOM	3367		LYS	B	492	27.242	4.887 35,084	1.00	41,41	
ATOM	3368		LYS	B	492	26.299	6.013 34.698	1.00	47.57	
MOTA	3369		LYS	В	492	26.395	7.184 35.618	1.00	50.76	
MOTA	3370		LYS	В	492	29.453	1.771 32.619	1.00	34.08	
ATOM	3371		LYS	В	492	30.090	1.382 33.593	1.00	34.31	
MOTA	3372		ALA	В	493	28.835	0.935 31.788	1.00	32.03	
ATOM	3373		ALA	В	493	28.867	-0.510 31.998	1.00	30.70	
ATOM ATOM	3374 3375		ALA ALA	В	493	27.719	-1.181 31.245	1.00	28.80	
ATOM	3376	0	ALA	B B	493	30,201	-1.156 31.606	1,00	33.75	
ATOM	3377		GLY	В	493 494	30.402	-2.356 31.819	1.00	30.53	•
ATOM	3378	CA	GLY	В	494	31.102 32.405	-0.372 31.020 -0.903 30.656	1.00	33.50	
ATOM	3379	C	GLY	В	494	32.639	-1.360 29.230	1.00	33,71	
ATOM	3380	Ö	GLY	В	494	33.663	-1.989 28.950	1.00	34.40 33.13	
ATOM	3381		LEU	В	495	31.712	-1.056 28.326	1.00	31.76	
ATOM	3382	CA	LEU	В	495	31.859	-1.452 26.925	1.00	30.57	
ATOM	3383	CB	LEU	В	495	30.494	-1.415 26.216	1.00	30.57	
ATOM	3384		LEU	В	495	29.610	-2.675 26.256	1.00	29.59	
ATOM	3385	CD1	LEU	В	495	29.315	-3.058 27.700	1.00	26.60	
ATOM	3386		LEU	В	495	28.307	-2.416 25.501	1.00	27.52	
ATOM	3387		LEU	B	495	32.829	-0.515 26.202	1.00	30.53	
MOTA	3388	0	LEU	В	495	32.855	0,688 26.468	1.00	28.14	
ATOM	3389	N	THR	B	496	33.628	-1.064 25.291	1.00	28.03	
MOTA	3390	CA	THR	B	496	34.567	-0.243 24.529	1.00	29.06	
MOTA	3391	CB	THR	В	496	35.511	-1.095 23.665	1.00	29.40	
MOTA	3392	OG1	THR	В	496	34.753	-1.758 22.641	1.00	30.29	
ATOM	3393	CG2	THR	В	496	36.228	-2.122 24.515	1.00	28.12	
MOTA	3394	C	THR	В	496	33.770	0.652 23.590	1.00	30.12	
MOTA	3395	0	THR	В.	496	32.580	0.433 23.380	1.00	29.74	
ATOM	3396	N	LEU	В	497	34.430	1.654 23.018	1.00	30.44	
MOTA	3397	CA	LEU	В	497	33.762	2.567 22.104	1.00	28.54	
ATOM	3398	CB	LEU	В	497	34.768	3.564 21.529	1.00	31.14	
ATOM	3399	CG	LEU	В	497	35.209	4.719 22.434	1.00	33.58	
MOTA	3400	CD1	LEU	B	497	36.120	5,659 21,652	1.00	31.42	
ATOM	3401	CD2	LEU	В	497	33.992	5.469 22.942	1.00	35.08	
MOTA	3402	C	LEU	В	497	33.095	1.800 20,967	1.00	27.35	
MOTA	3403	0	LEU	В	497	31.967	2.105 20.574	1.00	24.03	
ATOM	3404	N	GLN	В	498	33.798	0.797 20.447	1.00	26.17	
ATOM	3405		GLN	В	498	33.289	-0.009 19.348	1.00	26.32	
ATOM	3406	CB	GLN	В	498	34.411	-0.876 18.771	1.00	27.25	
ATOM	3407		GLN	В	498	33.967	-1.796 17.645	1.00	32.67	
MOTA	3408	CD	GLN	В	498	34.965	-2.912 17.374	1.00	38.39	

	MOTA	3409	OE1	GLN	В	498	35.737	-3.298 18,254	1.00	36.78
	ATOM	3410	NE2	GLN	В	498	34.953	-3.437 16.153	1.00	33.18
	ATOM	3411	C	GLN	В	498	32.112	-0.888 19.774	1.00	25.70
	ATOM	3412	O	GLN	В	498	31.167	-1.076 19.009	1.00	25.35
	ATOM	3413	N	GLN	В	499	32.173	-1.434 20.986	1.00	24.01
	ATOM	3414	CA	GLN	В	499	31.093	-2.281 21,487	1.00	25.34
	ATOM	3415	CB	GLN	В	499	31.501	-2.935 22.815	1.00	28.38
	ATOM	3416	CG	GLN	В	499	32.537	-4.056 22.669		
									1.00	29.13
	MOTA	3417	CD	GLN	B	499	32.913	-4.687 23.995	1.00	30.80
	MOTA	3418	OE1	GLN	В	499	33.306	-3.997 24.937	1.00	33.62
	ATOM	3419	NE2	GLN	B	499	32.797	-6.004 24.074	1.00	30.64
	MOTA	3420	C	GLN	В	499	29.842	-1.430 21.693	1.00	25.70
	MOTA	3421	Ø	GLN	В	499	28.715	-1.910 21.554	1.00	26.22
	ATOM	3422	N	GLN	В	500	30.062	-0.160 22.020	1.00	23.09
	ATOM	3423	CA	GLN	В	500	28.989	0.793 22.256	1.00	23.53
	ATOM	3424	CB	GLN	B	500	29.564	2.107 22.782	1.00	26.17
	MOTA	3425	CG	GLN	B	500	29.958	2,073 24.252	1.00	27.71
	ATOM	3426	CD	GLN	B	500	30.812	3.262 24.641	1.00	29.32
	MOTA	3427	OE1	GLN	B	500	30.559	4.386 24.207	1.00	28,48
	ATOM	3428	NE2	GLN	В	500	31.831	3.021 25.463	1.00	25.07
	ATOM	3429	С	GLN	В	500	28.151	1.074 21.015	1,00	24,24
	ATOM	3430	0	GLN	В	500	26,923	0.949 21.053	1.00	24.40
	ATOM	3431	N	HIS	B	501	28.790	1.465 19.915	1.00	23.08
	ATOM	3432	CA	HIS	В	501	28.004	1.739 18.724	1.00	26.92
	ATOM	3433	CB	HIS	В	501	28.791	2.577 17.697	1.00	32.00
	ATOM	3434	CG	HIS	В	501	29.988	1.896 17.105	1.00	36.97
	ATOM	3435	CD2	HIS	В	501	30.122	0.710 16.465	1.00	40.32
	ATOM	3436	ND1	HIS	В	501	31.224	2.505 17.042	1.00	37.88
	ATOM	3437	CE1	HIS	В	501	32.066	1.724 16.389	1.00	38.81
	ATOM	3438	NE3	HIS	В	501	31.422	0.628 16.028	1.00	41.21
	ATOM	3439	C	HIS	В	501	27.451	0.457 18.123	1.00	25.91
	ATOM	3440	ō	HIS	B	501	26.369	0.457 17.531	1.00	20.13
	ATOM	3441	N	GLN	В	502	28.165	-0.648 18.317	1.00	24.94
	ATOM	3442	CA	GLN	В	502	27.698	-1.926 17.804	1.00	21.88
	ATOM	3443	CB	GLN	B	502	28.785	-2,996 17.953	1.00	24.62
	ATOM	3444	CG	GLN	В	502	29,796	-3.001 16.797	1.00	26,55
	MOTA	3445	CD	GLN	В	502	30.843	-4.109 16.902	1.00	27.06
	MOTA	3446	OE1	GLN	В	502	30.716	-5.033 17.705	1.00	28.49
	ATOM	3447		GLN		502	31.882	-4.018 16.078	1.00	21.90
	ATOM	3448	C	GLN	В	502	26.428	-2.341 18.554		22.39
					В			-2.807 17.944	1.00	
	MOTA	3449	0	GLN	В	502	25.464		1.00	22.24
	MOTA	3450	N	ARG	В	503	26.421	-2.159 19.874	1.00	20.54
	ATOM	3451	CA	ARG	В	503	25.259	-2.523 20.678	1,00	22.04
	MOTA	3452	CB	ARG	B	503	25.602	-2.519 22.180	1.00	22.51
	ATOM	3453	CG	ARG	В	503	24.451	-3.022 23.077	1.00	23.34
	ATOM	3454	CD	ARG	В	503	24.853	-3.110 24.550	1.00	22.18
	ATOM	3455	NE	ARG	В	503	23.743	-3.546 25.395	1.00	19.62
	ATOM	3456	CZ	ARG	В	503	23.329	-4.807 25.497	-1,00	19.88
•	ATOM	3457	NH1	ARG	В	503	23.933	-5.765 24.809	1.00	16.40
,	MOTA .	3458	NH2	ARG	В	503	22.303	-5,110 26.280	1.00	19.71
	ATOM	3459	С	ARG	В	503	24.102	-1.558 20.409	1.00	19.05
	MOTA	3460	0	ARG	В	503	22.945	-1,968 20.351	1.00	18.87
	ATOM	3461	N	LEU	В	504	24.414	-0.276 20.239	1.00	20.19
	ATOM	3462	CA		В	504	23.375	0.714 19.969	1.00	19.33
	ATOM	3463	CB		В	504	23.972	2.117 19.855	1.00	16.25
	ATOM	3464	CG		В	504	22.983	3.173 19.344	1.00	20.35
	ATOM	3465	CD1	•	В	504	21.930	3.449 20,427	1.00	17.97
	ATOM	3466	CD2		В	504	23.729	4.448 18.955	1.00	20.86
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	ATOM	3467	C	LEU	B	504	22.659	0.357	18.667	1.00	21.22
	ATOM	3468	0	LEU	В	504	21.433	0.478	18.566	1.66	19.28
	MOTA	3469	N	ALA	B	505	23.428	-0.085	17.676	1.00	18.55
	ATOM	3470	CA	ALA	В	505	22.859		16.396	1,00	18.20
	ATOM	3471	CB	ALA	В	505	23.973		15.382	1.00	18.45
	ATOM	3472	C	ALA	В	505	21.986		16.562	1.00	19.54
	ATOM	3473	Ö	ALA	В	505	20.871		16,041	1.00	17.63
	ATOM	3474	И	GLN	В	506	22.497		17.293	1.60	20,30
	ATOM	3475	CA	GLN	В	506	21.772				
	ATOM	3476	CB	GLN	В	506			17.513	1.00	19.48
							22.590		18.409	1,00	21.75
	ATOM	3477	CG	GLN	В	506	23.798		17.727	1.00	20.85
	MOTA	3478	CD	GLN	В	506	24.819		18.736	1.00	26.18
	MOTA	3479	OE1	GLN	B	506	24.564		19.943	1.00	21.83
	MOTA	3480	NE2	GLN	B	506	25.977		18.245	1.00	25.39
	atom	3481	C	GLN	B	506	20.421		18.166	1.00	21.39
	AŢOM	3482	0	GLN	B	506	19.396	-4.233	17.766	1.00	20.87
	atom	3483	N	LEU	B	507	20.433	-2,800	19.171	1.00	19.52
	MOTA	3484	CA	LEU	B	507	19.219	-2.418	19.884	1.00	23.04
	MOTA	3485	CB	LEU	B	507	19.548	-1.455	21.030	1.00	22.82
	ATOM	3486	CG	LEU	В	507	20.182	-2.011	22.313	1.00	26.12
	ATOM	3487	ÇD1	LEU	В	507	20.203	-0.916	23.360	1.00	29.33
	ATOM	3488	CD2	LEU	В	507	19.415		22.816	1.00	27.80
	ATOM	3489	C	LEU	В	507	18.212		18.971	1.00	22.19
	ATOM	3490	0	LEU	В	507	17.036		18.964	1.00	23.00
	ATOM	3491	N	LEU	В	508	18.678		18.214	1.00	21.53
	ATOM	3492	CA	LEU	В	508	17.797		17.332	1.00	20.60
	ATOM	3493	CB	LEU	В	508	18.535		16.805	1.00	17.57
	ATOM	3494	CG	LEU	В	508	18.934		17.913	1.00	
	ATOM	3495	CD1	LEU	В	508	19.566		17.301	1,00	20.04
•	ATOM	3496	CD2	LEU	В	508	17.724		18.725	1.00	18.49
	ATOM	3497	C	LEU	В	508	17.235		16.183	1.00	21.17
	MOTA	3498	0	LEU	В	508	16.118		15.728	1.00	21.88
	MOTA	3499	и	LEU		509			15.713	1.00	
		3500			В	509	18.000				21.89
	ATOM ATOM	3501	CA	LEU	В		17.511		14.631	1.00	22.81
			CB	LEU	В	509	18.603	-3.597		1.00	22.65
	ATOM	3502	CG	LEU	В	509	19.645		13.278	1.00	29.11
•	AŢOM	3503	CD1	LEU	B	509	20.697	-3.888		1.00	25.69
	ATOM	3504	CD2	LEU	B	509	18.965	-2.248		1.00	27.92
	ATOM	3505	e	LEU	B	509	16.302	-3.462		1.00	23.32
	ATOM	3506	0	LEU	B	509	15.409	-3.759		1.00	23,36
	ATOM	3507		IĻE	B	510	16.264	-3.796		1.00	23.36
	ATOM	3508		ILE	B	510	15.148	-4.562	16.912	1.00	20,99
	ATOM	3509	CB	ILE	В	510	15.448	-5,041	18,361	1.00	28.60
	MOTA	3510	CG2	ILE	B	510	14.162	-5.435	19.075	1.00	28.10
	ATOM	3511	CG1	ILE	В	510	16.383	-6.260	18.308	1.00	26.57
	ATOM	3512	CD1	ILE	В	510	17.429	-6.301	19.419	1.00	30.14
	ATOM	3513	C	ILE	В	510	13.852	-3.746	16.846	1.00	17.65
	ATOM	3514	0	ILE	В	510	12.767	-4.308	16.759	1.00	16.11
	ATOM	3515	N	LEU	В	511	13.961	-2.421		1.00	18.12
	ATOM		CA	LEU	В	511	12.772	-1.574		1.00	16,95
	ATOM	3517	CB	LEU	В	511	13.147	-0.100		1.00	22.56
	ATOM	3518	CG	LEU	В	511	13.607		18.406	1.00	22.13
	ATOM	3519	CD1	LEU	В	511	13.404		18.652	1.00	25.29
	ATOM	3520	CD2	LEU	В	511				1.00	
	ATOM	3520	CD2	LEU	В	511	12.830 12.112	-0.549	•		25.08
								-1.771		1.00	16.65
	MOTA	3522	0	LEU	В	511	10.915	-1.578		1.00	17.09
	MOTA	3523	N	SER	В	512	12.901	-2.161		1.00	15,83
	ATOM	3524	CA	SER	В	512	12.355	-2.408	13.072	1.00	18,66

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ATOM	3525	CB	SER	В	512	13.484	-2.644 12.074	1.00	17.62
MOTA	3526	Q G	SER	В	512	13,079	-3,550 11.062	1.00	32.77
MOTA	3527	C	SER	В	512	11.454	-3.638 13.154	1.00	18.54
MOTA	3528	0	SER	В	512	10.373	-3.683 12.545	1.00	17.01
MOTA	3529	N	HIS	В	513	11.899	-4.625 13,929	1.00	15.54
MOTA	3530	CA	HIS	В	513	11,141	-5.860 14.115	1.00	17.67
ATOM	3531	CB	HIS	В	513	12.013	-6.916 14.790	1.00	19.03
ATOM	3532	CG	HIS	В	513	13.063	-7.475 13.886	1.00	27.06
MOTA	3533	CD2	HIS	B	513	12.980	-8.364 12.868	1.00	28.40
MOTA	3534	NDI	HIS	В	513	14.378	-7.066 13.932	1.00	28.92
ATOM	3535	CE1	HIS	₿	513	15.061	-7.678 12.981	1.00	30.75
MOTA	3536	NE2	HIS	В	513	14.235		1.00	30,08
ATOM	3537	С	RIH	B	513	9.895	-5.602 14.958	1.00	15.35
ATOM	3538	0	HIS	В	513	8.846	-6.192 14.704	1.00	14.83
ATOM	3539	N	ILE	В	514	10.012	-4.744 15.942	1.00	13.35
ATOM	3540		ILE	В	514	8.865	-4.417 16.776	1.00	15.48
ATOM	3541	CB	ILE	B	514	9.295	-3.534 17.967	1,00	20.02
atom	3542	CG2	ILE	B	514	8.067	-2.918 18.650	1.00	12.84
MOTA	3543	CG1	ILE	B	514	10.093	-4.397 18.962	1.00	22.87
ATOM	3544	CD1	ILE	В	514	10.691		1.00	29.62
ATOM	3545	Ç	IĻE	В	514	7.797	-3.717 15.923	1.00	15.16
ATOM	3546	0	ILE	В	514	6.606	-3.972 16,078	1,00	16.61
ATOM	3547	N	ARG	В	515	8.224	-2.823 15.030	1.00	16.33
ATOM	3548	CA	ARG	B	515	7,280	-2.138 14.150	1.00	17.54
ATOM	3549	CB	ARG	В	515	8.010	-1.173 13.214	1.00	20.15
ATOM	3550	CG	ARG	В	515	7.080	-0.454 12.234	1.00	21.47
ATOM	3551	CD	ARG	В	515	6.407	0.749 12.891	1.00	26.05
ATOM	3552	NE	ARG	B.	515	7.220	1.948 12.716	1.00	24.91
ATOM	3553	CZ	ARG	В	515	6.734	3.175 12.547	1.00	24.61
ATOM ATOM	3554	NH1	ARG	В	515 515	5.424	3.393 12.522	1.00	22.46
ATOM	3555 3556	NH2 C	ARG ARG	B	515 515	7.569 6.545	4.182 12,374 -3.182 13.304	1.00	23.15 16.60
ATOM	3557	0	ARG	В	515	5.332	-3.182 13.304	1.00	14.51
ATOM	3558	N	HIS	В	516	7.298	-4.171 12.827	1.00	18.50
ATOM	3559	CA	HIS	В	516	6.743	-5.237 11.997	1.00	17.26
ATOM	3560	CB	HIS	В	516 516	7,861	-6.176 11.533	1.00	18.14
ATOM	3561	CG	HIS	В	516	7.405	-7.223 10.568	1.00	24.87
ATOM	3562	CD2	HIS	В	516	7.060			
MOTA	3563		HIS	B	516	7.258	-6.978 9.220	1.00	21.82
ATOM	3564		HIS	В	516	6.839	-8.078 8.619	1.00	28.42
ATOM	3565		HIS	В	516	6.711	-9.028 9.526	1.00	24.47
ATOM	3566	C	HIS	В	516	5.685	-6.028 12.759	1.00	16.87
ATOM	3567		HIS	В	516	4.596	-6.303 12.240	1.00	14.81
ATOM	3568	N	MET	В	517	5.999	-6.396 13.997	1.00	16.48
ATOM	3569		MET	В	517	5,049	-7,162 14.801	1.00	15.39
ATOM	3570	CB	MET	В	517	5.701	-7.587 16.114	1.00	21.05
ATOM	3571		MET	В	517	6.790	-8.638 15.917	1.00	20.76
ATOM	3572	SD	MET	В	517	7.380	-9.320 17.470	1.00	23.96
ATOM	3573		MET	В	517	8.104	-7.879 18.226	1.00	20.45
ATOM	3574		MET	В	517	3.789	-6.368 15.080	1.00	16.23
ATOM	3575		MET	В	517	2.688	-6.924 15.148	1.00	16.02
MOTA		N	SER	В	518	3,954	-5.060 15.247	1.00	13.32
ATOM	3577		SER	В	518	2.827	-4.186 15.505	1.00	16.34
ATOM	3578	CB	SER	В	518	3.316	-2.765 15.835	1.00	17.48
ATOM			SER	В	518	2.234	-1.840 15.843	1.00	17.46
ATOM			SER	В	518	1.906	-4.147 14.284	1.00	14.73
MOTA	3581	0	SER	В	518	0.688	-4.247 14.417	1.00	19.16
ATOM	3582	N	ASN	В	519	2.474	-4.006 13.091	1.00	14.52

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ATOM	3583	CA	asn	В	519	1.622	-3.953 11.907	1,00	15.35
MOTA	3584	CB	asn	B	519	2.432	-3.509 10.698	1.00	19.21
MOTA	3585	CG	ASN	B	519	2.700	-2.029 10.729	1.00	20.58
MOTA	3586	OD1	asn	В	519	1.839	-1.258 11.150	1.00	26.36
MOTA	3587	ND2	ASN	В	519	3.891	-1.618 10.307	1.00	19.62
ATOM	3588	C	ASN	В.	519	0.911	-5.280 11.658	1.00	16.74
ATOM	3589	0	ASN	В	519	-0.265	-5.299 11.297	1.00	20.58
ATOM	3590	N	LYS	В	520	1.608	-6.387 11.885	1.00	18.60
ATOM	3591	CA	LYS	В	520	0.992	-7.699 11.717	1.00	20.04
ATOM	3592	CB	LYS	В	520	2.038	-8.801 11,872	1.00	25.44
ATOM	3593	CG	LYS	В	520	3.037		1.00	31.68
ATOM	3594	CD	LYS	В	520	2.507	-9.663 9.558	1.00	42.56
ATOM	3595	CE	LYS	В	520	2.186	-8.778 8.364	1.00	45.61
ATOM	3596	NZ	LYS	B	520	1.435	-9.526 7.312	1.00	46.00
ATOM	3597	C	LYS	В	520	-0.099	-7.868 12,769	1.00	18.88
MOTA	3598	0	LYS	В	520	-1.183	-8.358 12.478	1.00	21.75
MOTA	3599	N	GLY	В	521	0.191	-7.455 13,998	1.00	17,83
MOTA	3600	CA	GLY	В	521	-0.792	-7.569 15.058	1.00	16.19
MOTA	3601	C	GLY	В	521	-2.000	-6.674 14.833	1.00	16.59
MOTA	3602	0	GLY	В	521	-3.128	-7.060 15.125	1.00	16.57
ATOM	3603	N	MET	В	522	-1.766	-5.467 14.326	1.00	17.48
ATOM	3604	CA	MET	В	522	-2.852	-4.527 14.042	1.00	18.25
MOTA	3605	CB	MET	В	522	-2.276	-3.212 13.516	1.00	21.27
MOTA	3606	CG	MET	В	522	-3.190	-2.018 13.707	1.00	26.97
ATOM	3607	SD	MET	B	522	-3.199	-1.477 15.417	1.00	30.35
ATOM	3608	CE	MET	В	522	-1.659	-0.605 15.475	1.00	29.86
ATOM	3609	C	MET	В	522	-3.794	-5.119 12.989	1.00	18.68
MOTA	3610	0	MET	В	522	-5.022	-5.008 13.097	1.00	18.80
ATOM	3611	N	GLU	В	523	-3.205	-5.731 11.966	1.00	18.22
ATOM	3612	CA	GLU	В	523	-3,968	-6.357 10.889	1.00	23.41
ATOM	3613	CB	GLU	В	523	-3.031	-6.946 9.830	1.00	28.74
ATOM	3614	CG	GLU	В	523	-2.224	-5.935 9.030	1.00	34.42
ATOM	3615	CD	GLU	В	523	-1.095	-6.597 8.239	1.00	45.58
MOTA	3616	OE1	GLU	В	523	-0.131	-5.894 7.857	1.00	49.48
MOTA	3617	OE2	GLU	В	523	-1.169	-7.825 7.999	1.00	45.97
ATOM	3618		GLU	В	523	-4.812	-7.482 11.465	1.00	23.98
ATOM	3619		GLU	В	523	-5.993	-7.616 11.147	1.00	22.08
MOTA		N	HIS	В	524	-4.187		1.00	23.46
MOTA	3621	CA	HIS	В	524	-4.846	-9.428 12.952	1.00	26.20
MOTA	3622	CB	HIS	В	524		-10.245 13.743	1.00	27.26
ATOM	3623	CG	HIS	В	524 524		-11.509 14.321	1.00	30.91
ATOM	3624	CD2	HIS	B	524 524		-12.792 13.892	1.00	30.90
ATOM	3625	ND1	HIS	В	524		-11.537 15.490	1.00	28.87
ATOM	3626	CE1	HIS	В	524		-12.780 15.757	1.00	30.45
ATOM	3627	NE2	HIS	В	524		-13.561 14.803	1:00	29.19
ATOM	3628	k .	HIS	В	524	-5.996	-9.025 13.870	1.00	27.69
MOTA	3629		HIS	В	524	-7.061	-9.656 13.860	1.00	25.00
ATOM		N	LEU	В	525	-5.777	-7.977 14.655	1.00	23.84
ATOM	3631	CA	LEU	B	525 525	-6.786	-7.492 15.588	1.00	25.77
ATOM	3632	CB	LEU	B	525	~6.217	-6.358 16.444	1.00	22.22
ATOM	3633	CG	LEU	В	525	-7.164	-5.778 17.498	1.00	26.81
ATOM	3634	CD1	LEU	B	525	-7.763	-6.922 18.321	1.00	23.32
ATOM	3635	CD2	LEU	В	525	-6.414	-4.793 18.399	1.00	18.95
ATOM	3636	C	LEU	В	525	-8.013	-6.995 14.842	1.00	26.94
ATOM	3637	0	LEU	В	525	-9.154	-7.247 15.249	1.00	26.73
MOTA	3638	N	TYR	В	526	-7.764	-6,271 13.757	1.00	26.86
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ATOM ATOM		CA	TYR TYR	B B	526 526	-8.819 -8.201	-5.726 12.918 -4.818 11.854	1.00	30.89 34.31

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ATOM	3641	CG	TYR	В	526	-9.183	-4.223	10.878	1.00	43.50
ATOM	3642	cD1	TYR	В	526	-10.058		11.267	1.60	47.66
ATOM	3643		TYR	В	526	-10.943		10.357	1.00	48.85
ATOM	3644		TYR	В	526	-9.218		9.552	1,00	48.52
ATOM	3645		TYR	В	526	-10.098		8.634	1.00	52.43
ATOM	3646		TYR	В	526	-10.955			1.00	51.67
ATOM	3647		TYR	В	526	-11.810		8.129		
ATOM	3648		TYR		•				1.00	57.01
ATOM	3649			В	526 526	-9.577		12,265	1.00	30.90
			TYR	В	526	-10.793		12.113	1.00	31.48
ATOM	3650		SER	В	527	-8.849		11.889	1.00	31.39
MOTA	3651	CA	SER	В	527	-9.460		11.266	1.00	33.73
ATOM	3652		SER	B	527	-8.377			1.00	34.13
ATOM	3653		SER	В	527	-8.945			1.00	43.67
MOTA	3654		SER	В	527	-10.339			1.00	34.34
ATOM	3655		SER	В	527	-11.446			1.00	33.42
ATOM	3656	N	MET	В	528	-9.840	-9.916	13.517	1.00	31.66
MOTA	3657	CA	MET	B	528	-10.574	-10.572	14.589	1.00	29.77
ATOM '	3658	CB	MET	В	528	-9.682	-10.743	15.820	1.00	32.96
ATOM	3659	CG	MET	В	528	-8.651	-11.859	15.699	1.00	33.47
ATOM	3660	SD	MET	В	528	-9.359	-13.427	15.134	1.00	38.28
ATOM	3661	CE	MET	В	528	-10.265	-13.915		1.00	36.01
ATOM	3662	C	MET	B	528	-11.800	-9.747			29.42
ATOM	3663	0	MET	В	528	-12.835	-10.293		1.00	28.65
ATOM	3664	N	LYS	В	529	-11.673	-8.429		1.00	30.64
ATOM	3665	CA	LYS	В	529	-12.781	-7.533		1.00	31.80
ATOM	3666	CB	LYS	В	529	-12.323	-6.079			32.86
ATOM	3667	CG	LYS	В	529	-13.436	-5.043		1.00	36.42
ATOM	3668	CD	LYS	В	529	-13.114	-3.852		1.00	41.74
ATOM	3669	CE	LYS	В	529	-13.734	-2.564		1.00	43.45
ATOM	3670	NZ	LYS	В	529	-15.221	-2.569		1.00	46.51
ATOM	3671	C	LYS	B	529	-13.857	-7.840		1.00	36.60
ATOM	3672	ō	LYS	В	529	-15.049	-7.877		1.00	34.04
ATOM	3673	N	CYS	В	530	-13.407	-8.083		1.00	40.04
ATOM	3674	CA	CYS	В	530	-14.286	-8.409		1.00	44.58
ATOM	3675	CB	CYS	В	530	-13.460	-8.535		1.00	50.64
ATOM	3676	SG	CYS	В	530	-13,369	-7.034	9.504	1.00	67.65
ATOM	3677	C	CYS	В	530	-15.065	-9.692			
ATOM	3678	õ	CYS	В	530	-16.274	-9.741		1.00	42.88
ATOM	3679	N	LYS	В	531,				1.00	40.15
ATOM	3680	CA	LYS			-14.360	-10.733		1.00	41.92
ATOM	3681	CB	LYS	В	531	-14.980	-12.023		1.00	42.60
MOTA				В	531	-13.907	-13.091		1.00	44.77
MOTA	3682	C	LYS	В	531	-15.844	-11.907		1.00	44.43
	3683	0	LYS	В	531		-12.804		1.00	44.09
ATOM	3684	N	ASN	В	532		-10.793		1.00	44.98
ATOM	3685	CA	ASN	В	532	-16.437	-10.496		1.00	44.10
ATOM	3686	CB	ASN	В	532		-10.003		1.00	45.14
ATOM	3687	CG	ASN	В	532	-18.526	-9.271		1.00	46.54
ATOM	3688	OD1	ASN	В	532	-19.729	-9.424	16.837	1.00	50.62
MOTA	3689	ND2	ASN	B	532	-17.771	-8.471	17.375	1.00	46.07
ATOM	3690	C _,	ASN	B	532	-16.557	-11.657	16.882	1.00	43.34
MOTA	3691	o'	ASN	В	532	-17.655	-11.994	17.321	1.00	41.42
ATOM	3692	N	VAL	В	533	-15.434	-12,264	17.243	1.00	43.45
ATOM	3693	CA	VAL	В	533	-15.471	-13.371		1.00	44.06
ATOM	3694	CB	VAL	В	533	-14.170	-14.219		1.00	45.56
ATOM	3695	CG1	VAL	В	533	-13.661	-14.263		1.00	45.67
ATOM	3696	CG2	VAL	В	533	-13.107	-13.644		1.00	44.16
ATOM	3697	С	VAL	В	533	-15.670	-12.835		1.00	43.24
ATOM	3698	0	VAL	В	533	-15.894	-13.602		1.00	44.21

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ATOM	3699	N	VAL	В	534	-15.596	-11.511	19.755	1.00	40.44
ATOM	3700	CA	VAL	B	534	-15.765	-10.849	21.049	1,00	37.80
MOTA	3701	CB	VAL	В	534	-14.630	-11.259	22.038	1.00	36.38
ATOM	3702	CG1	VAL	В	534	-13.324	-10.575	21.658	1.00	34.35
MOTA	3703	CG2	VAL ·	В	534	-15.021	-10.910	23.463	1.00	39.34
ATOM	3704	C	VAL	В	534	-15.752	-9.329	20.857	1.00	37.97
ATOM	3705	O	VAL	В	534	-15.026	~8.808	20.008	1.00	39.45
ATOM	3706	Ŋ	PRO	В	535	-16.575	-8.597	21.625	1.00	37.81
MOTA	3707	CD	PRO	B	535	-17.529	-9.078	22.640	1.00	38.74
ATOM	3708	CA	PRO	В	535	-16.608	-7.135	21.492	1.00	36.79
MOTA	3709	CB	PRO	В	535	-17.846	-6.729	22,288	1.00	36.98
MOTA	3710	CG	PRO	В	535	-18.004	-7.809	23.298	1.00	39.77
MOTA	3711	C	PRO	В	535	-15.338	-6.494	22.049	1.00	33.95
ATOM	3712	0	PRO	B	535	-14.786	-6.963	23.040	1.00	34.93
MOTA	3713	N	LEU	В	536	-14.881	-5.426	21.409	1.00	33.42
MOTA	3714	CA	LEU	В	536	-13.675	-4.732	21.851	1.00	33,40
MOTA	3715	CB	LEU	В	536	-12.829	-4.314	20.647	1.00	29.31
ATOM	3716	CG	LEU	В	536	-12.219	-5,433	19,798	1.00	30.06
ATOM	3717	CD1	LEU	В	536	-11.344	-4.822	18.714	1.00	30.85
MOTA	3718	CD2	LEU	В	536	-11.398	-6.370	20.676	1.00	28.96
ATOM	3719	C	LEU	В	536	-14.036	-3.498	22.666	1.00	30.50
ATOM	3720	0	LEU	В	536	-15.024	-2.829	22.383	1.00	29.91
ATOM	3721	N	TYR	В	537	-13.231	~3.194	23.676	1.00	28.69
ATOM	3722	CA	TYR	В	537	-13.494	-2.032	24.505	1.00	29.89
ATOM	3723	CB	TYR	B	537	-12.618	-2.071	25.750	1.00	32.50
ATOM	3724	CG	TYR	B	537	-12.849	-3.327	26.543	1.00	39.46
MOTA	3725	CD1	TYR	B	537	-13.923	-3.431	27.421	1.00	41.90
ATOM	3726	CE1	TYR	В	537	-14.174	-4.609	28.118	1,00	45.72
ATOM	3727	CD2	TYR	В	537	-12.022	-4.435	26.379	1.00	47.39
MOTA	3728	CE2	TYR	В	537	-12.262	-5.620		1.00	49.93
ATOM	3729	CZ	TYR	В	537	-13.340	-5.699		1.00	48.80
ATOM	3730	OH	TYR	В	537	-13.582	-6.872		1.00	53.90
ATOM	3731	C	TYR	В	537	-13.262	-0.761		1.00	27.09
ATOM	3732	0	TYR	В	537	-12.518	-0.757		1.00	26.15
ATOM	3733	N	ASP	В	538	-13.909		24.141	1.00	26.12
ATOM	3734	CA	ASP	В	538	-13.830		23.461	1.00	25.27
ATOM	3735	CB	ASP	В	538	-14.748		24.164	1.00	28.85
ATOM	3736	CG	ASP	В	538	-16.227		23.940	1.00	33.90
ATOM	3737		ASP	В	538	-17.052		24.819	1.00	32.68
ATOM	3738	OD2	ASP	В	538	-16.562		22.882	1.00	38.26
ATOM	3739	C	ASP	В	538	-12.447		23.261	1.00	25.18
ATOM	3740	0	ASP	В	538	-12.120		22.147	1.00	26.41
ATOM ATOM	3741 3742	N	LEU	В	539	-11.637		24.313	1.00	20,76
		CA	LEU	В	539	-10.312		24.150	1.00	19.65
ATOM	3743	CB	LEU	В	539	-9.567		25.496	1.00	17.48
ATOM	3744	CG	LEU	В	539	-8.116		25.469	1.00	16.46
ATOM		CD1	LEU	В	539	-8.051		24.838	1.00	16.43
ATOM	3746	CD2	LEU	В	539	-7.564		26.895	1.00	15.57
ATOM	3747	C	LEU	В	539	-9.484		23.127	1.00	16.75
ATOM	3748	O	LEU	В	539	-8.862		22.249	1.00	20.36
ATOM	3749	N	LEU	В	540	-9.487		23.239	1.00	18.23
ATOM	3750	CA	LEU	В	540	-8.743	-0.048		1.00	18.05
ATOM	3751	CB	LEU.	В	540	-8.909	-1.528		1.00	16.38
ATOM	3752	CG	LEU	В	540	-8.188	-2.554		1.00	19.81
ATOM	3753	CD1	LEU	В	540	-6.679	-2.303		1.00	19.27
ATOM	3754	CD2	LEU	В	540	-8.473	-3.952		1.00	18.00
ATOM	3755	C	LEU	В	540	-9.241 -9.449	0.169		1.00	21.50
MOTA	3756	J	LEU	В.	540	-8.449	0.293	19.964	1.00	20.41

MOTA	3757	N	LEU	В	541	-10.559	0.206 20.726	1.00	22.40
atom	3758	CA	Leu	B	541	-11.164	0.419 19.413	1.00	23.27
ATOM	3759	CB	LEU	В	541	-12.686	0.429 19.527	1.00	25.12
ATOM	3760	CG	LEU	В	541	-13.410	-0.808 18.999	1.00	36.53
ATOM	3761	CD1	LEU	В	541	-14.910	-0.671 19.273	1.00	30.98
atom	3762	CD2	LEU	В	541	-13.136	-0.971 17.508	1.00	31.93
ATOM	3763	Ç	LEU	В	541	-10.697	1.751 18.842	1.00	22.46
ATOM	3764	0	LEU	₿	541	-10.359	1.845 17.666	1.00	26.29
ATOM	3765	N	GLU	В	542	-10.694	2.781 19.680	1.00	23.96
ATOM	3766	CA	GLU	В	542	-10.248	4.105 19,270	1.00	26,91
ATOM	3767	CB	GLU	В	542	-10.250	5.050 20.468	1.00	30.84
ATOM	3768	CĢ	GLU	В	542	-11.166	6.245 20.347	1.00	37.20
ATOM	3769	ÇD	GLU	В	542	-11.138	7.105 21.597	1.00	39.98
MOTA	3770	OE1	GLU	В	542	-12.223	7.385 22.144	1.00	39.92
ATOM	3771	OE2	GLU	B	542	-10.028	7.494 22.034	1.00	38.96
ATOM	3772	C	GLU	B	542	-8.826	4.010 18.724	1.00	27.90
ATOM	3773	0	GLU	В	542	-8.530	4.492 17.634	1.00	29.32
ATOM	3774	N	MET	В	543	-7.945	3.388 19.499	1.00	26.41
ATOM	3775	CA	MET	B	543	-6.552	3.237 19,107	1.00	23.53
ATOM	3776	CB	MET	В	543	-5.749	2.591 20.247	1.00	24.60
ATOM	3 <i>777</i>	CG	MET	В	543	-5.812	3.338 21.579	1.00	26.46
ATOM	3778	SD	MET	В	543	-5,373	5.084 21.467	1.00	29.45
MOTA	3779	CE	MET	В	543	-3.585	4.971 21.349	1.00	25.43
ATOM	3780	C	MET	В	543	-6.403	2.407 17.832	1.00	25.80
ATOM	3781	0	MET	В	543	-5.535	2.686 17.004	1.00	23.59
ATOM	3782	N	LEU	В	544	-7.254	1.394 17.673	1.00	27.74
ATOM	3783	CA	LEU	В	544	-7.202	0.522 16.499	1.00	26.32
ATOM	3784	CB	LEU	В	544	-8.069	-0.721 16.719	1.00	26.75
ATOM	3785	ÇG	LEU	В	544	-8.274	-1.632 15.502	1.00	28.12
ATOM	3786	CD1	LEU	В	544	-6.956	-2.294 15.136	1.00	26.36
ATOM	3787	CD2	LEU	В	544	-9.330	-2.680 15.803	1.00	27.00
ATOM	3788	С	LEU	В	544	-7.672	1.252 15.250	1.00	26.97
ATOM	3789	0	LEU	В	544	-7,036	1.181 14.195	1,00	24.25
ATOM	3790	N	ASP	В	545	-8.787	1.961 15.372	1.00	30.37
ATOM	3791	CA	ASP	В	545	-9.338	2.702 14.244	1.00	32.34
ATOM	3792	CB	ASP	В	545	-10.668	3.346 14.637	1.00	36.61
ATOM	3793	CG	ASP	В	545	-11.818	2.370 14.565	1.00	42.73
ATOM	3794	OD1	ASP	·B	545	-12.858	2.624 15.211	1.00	47.39
MOTA	3795	OD2	ASP	В	545	-11.676	1,342 13.863	1.00	46.96
MOTA	3796	C	ASP	B	545	-8.382	3.762 13.711	1.00	31.27
MOTA	3797	0	ASP	B	545	-8.443	4.120 12.532	1.00	30.53
AŢOM	3798	N	ALA	В	546	-7.506	4.272 14.572	1.00	29.02
MOTA	3799	CA	ALA	В	546	-6.543	5.280 14.141	1.00	31.21
ATOM	3800	CB	ALA	B	546	-5.646	5.693 15.306	1.00	30.98
ATOM	3801	C	ALA	B	546	-5.697	4,731 12.996	1.00	32.14
MOTA	3802	0	ALA	В	546	-5.189	5.490 12.170	1.00	33,78
MOTA	3803	N	HIS	В	547	-5.555	3.410 12.943	1.00	32.27
ATOM	3804	CA	HIS	В	547	-4.773	2.767 11.892	1.00	37.73
ATOM	3805	CB	HIS	В	547	-3.991	1.576 12.457	1.00	35.83
ATOM	3806	CG	HIS	В	547	-2.796	1.968 13.269	1.00	34.54
ATOM	3807	CD2	HIS	В	547	-2.698	2.553 14.486	1.00	30.23
MOTA	3808	ND1	HIS	В	547	-1.502	1.755 12.840	1.00	34.23
ATOM	3809	CE1	HIS	В.		-0.659	2.193 13.760	1.00	36.72
ATOM	3810	NE2	HIS	B	547	-1.360	2.681 14.768	1.00	31.48
ATOM	3811	C	HIS	В	547	-5.649	2.286 10.735	1.60	43.69
ATOM	3812	0	HIS	B	547	-5.178	2.152 9.606	1.00	46.04
ATOM	3813	N	ARG	В	548	-6.919		1.00	48.35
ATOM	3814	CA	ARG	В	548	-7.843	1.551 9.993	1.00	54.74

MOŢA	3815	CB	ARG	B	548	-8.522		10.452	1.00	54.66
atom	3816	¢	arg	B	548	-8.886		9.681	1.00	59.94
ATOM	3817	O	ARG	В	548	-8.580		9.672	1.00	62.81
ATOM	3818	N	LEU	B	549	-10.116			1.00	64.81
MOTA	3819	CA	LEU	В	549	-11.204	3.109	9.112	1,00	67.59
MOTA	3820	CB	LEU	B	549	-12.478	2.327	8.799	1.00	68.06
MOTA	3821	C	LEU	B	549	-11.449	4.069	10.275	1.00	69.12
MOTA	3822	0	LEU	B	549	-11.451		10.036	1.00	68.96
MOTA	3823	TXQ	LEU	В	549	-11.634		11.412	1.00	70.70
HETATM	3824	CP9	DES	B	600	-4.547	-6.077	22.000	1.00	18.55
HETATM	3825	CP8	des	B	600	-3.163		21,467	1.00	17.72
HETATM	3826	CP7	des	B	600	-2.897	-7.853	21.381	1.00	21.17
HETATM	3827	CP6	DES	B	600	-3.719	-8.551	20,374	1.00	22.05
HETATM	3828	CP1	DES	B	600	-3.405	-8.491	18.998	1.00	21.32
HETATM	3829	CP2	DES	B	600	-4.239	~9.095	18.063	1.00	21.61
HETATM	3830	CP3	DES	B	600	-5.388	-9.771	18.509	1.00	24.89
HETATM	3831	OP3	DES	B	600	-6.244	-10.339	17.600	1.00	24.94
HETATM	3832	CP4	DES	В	600	-5.718	-9.858	19.860	1.00	24.08
HETATM	3833	CP5	DES	В	600	-4.877	-9.240	20.791	1.00	24.67
HETATM	3834	C7	DES	В	600	-1.998	-8.460	22.190	1.00	16.67
HETATM	3835	Ce	DES	В	600	-1.330	-7.834	23.325	1.00	15.39
HETATM	3836	C5	DES	В	600	-2.054	-7.642	24.522	1.00	17.62
HETATM	3837	C4	DES	В	.600	-1.433	-7.072		1.00	16.16
HETATM	3838	C3	DES	В	600	-0.077	-6.685		1.00	20.04
HETATM	3839	О3	DES	В	600	0.509	-6.113		1.00	15.55
HETATM	3840	C2	DES	В	600	0,669	-6.866		1.00	18.94
HETATM	3841	Cl	DES	В	600	0.035	-7.440		1.00	15.20
HETATM	3842	C8	DES	В	600	-1.642	-9.903		1.00	17.61
HETATM	3843	C9	DES	В	600	-0.440	-10.009		1.00	11.63
HETATM	3844	C1	CBM	В	417	-4.997	-22.994		1.00	55.80
HETATM	3845	04	CBM	В	417	-4.789	-24.187		1.00	55.56
HETATM	3846	Q3	CBM	₿	417	-4.798	-22.559		1.00	56.04
HETATM	3847	C2	CBM	B	417	-5.468	-21.960		1.00	57.04
HETATM	3848	Cl	CBM	В	530	-15.278	-5.124		1.00	87.39
HETATM	3849	04	CBM	В	530	-15.852	-5.086	9.064	1.00	87.68
HETATM	3850	03	CBM	B	530	-15.832	-4,291		1.00	86.22
HETATM	3851	C2	CBM	В	530	-14.207	-5.886		1.00	87.65
ATOM	3852	CB	HIS	C	687	9.818			1.00	63.34
ATOM	3853	C	HIS	С	687				1.00	63.49
ATOM	3854	0	HIS	C	687		-20.840		1.00	63.87
ATOM	3855	N	HIS	C	687	7.944	-19.563		1.00	65.42
ATOM	3856	CA	HIS	C	687	9.424	-19.484		1.00	64.86
ATOM	3857	N	LYS	С	688	9.533	-20.281		1.00	62.00
ATOM	3858	CA	LYS	C	688	10.101	-20.999		1.00	60.81
ATOM	3859	CB	LYS	C	688	8.980	-21.540		1.00	61.76
ATOM	3860	C	LYS	C	688	11.050	-20.127		1.00	57.47
ATOM	3861	Ō	LYS	Ċ	688	12.253	-20.379		1.00	57.64
ATOM	3862	N	ILE	Ċ	689	•	-19.103		1.00	55.74
MOTA	3863	CA	ILE	c	689		-18.212		1.00	53.79
ATOM	3864	СВ	ILE	Ċ	689		-17.057		1.00	53.83
ATOM	3865	CG2	ILE	C	689		-16.286-		1.00	54.55
ATOM	3866	CG1	ILE	C	689		-17.603-		1.00	52.90
ATOM	3867	CD1	ILE	C	689		-16.550-		1.00	
ATOM	3868	C	ILE	C	689		-17.611			50.45
ATOM	3869	0	ILE	C	689		-17.550		1.00	50.82
ATOM	3870	И	LEU	C	690		-17.162		1.00	51.28
ATOM	3871	CA	LEU	C	690		-16,570		1.00	48.01
ATOM	3872	CB	LEU	C	690				1.00	47.33
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ATOM	3933	CA	SER	C	697	25.291	-19.741-11.507	1.00	76.45
MOTA	3934	CB	SER	C.	697	26.019	-21.076-11.377	1.00	76.00
ATOM	3935	C	SER	C	697	25.841	-18.960-12.696	1.00	78.44
MOTA	3936	0	SER	C	697	26,286	-17.809-12.489	1.00	79.20
MOTA	3937	OXT	SER	C	697	25.818	-19.510-13.820	1.00	80.07
ATOM	3938	CB	LYS	D	686	-14.070	13.661 16.843	1.00	50.28
MOTA	3939	C	LYS	D	686	-13.682	14.418 19.199	1.00	51.59
MOTA	3940	0	Γλὰ	D	686	-12.629	14.738 19.759	1.00	50.42
MOTA	3941	N	LYS	D	686	-12.910	15.796 17.283	1.00	50,43
ATOM	3942	CA	LYS	D	686	-13.976	14.872 17.769	1.00	50.62
ATOM	3943	N	HIS	D	687	-14.617	13.676 19.787	1.00	49.91
ATOM	3944	CA	HIS	D	687	-14.447	13.176 21.144	1.00	51.28
MOTA	3945	CB	HIS	D	687	-15.806	12.984 21.828	1.00	54.12
MOTA	3946	CG	HIS	D	687	-15.713	12.336 23.177	1.00	60.06
ATOM	3947	CD2	HIS	D	687	-15.418	11.064 23.539	1.00	61.05
MOTA	3948	ND1	HIS	D	687	-15.911	13.030 24.352	1.00	62.39
ATOM	3949	CE1	HIS	D	687	-15.741	12.215 25.378	1.00	62.76
ATOM	3950	NE2	HIS	D	687	-15.441	11.016 24.912	1.00	63.46
ATOM	3951	C	HIS	D	687	-13.691	11.849 21.163	1.00	49.55
ATOM	3952	0	HIS	D	687	-14.099	10.878 20.524	1.00	50.84
ATOM	3953	N	LYS	D	688	-12.593	11.816 21.909	1.00	44.00
ATOM	3954	CA	LYS	D	688	-11.784	10.611 22.038	1.00	40.31
ATOM	3955	CB	LYS	D	688	-10.446	10.773 21.299		41.42
ATOM	3956	CG	LYS	D	688	-10.513	10.595 19.780	1.00	42.76
ATOM	3957	CD	LYŚ	D	688	-9.123	10.716 19.152	1.00	38.66
ATOM	3958	CE	LYS	D	688	-9.162	10.529 17.640	1.00	38.28
ATOM	3959	NZ	LYS	D	688	-7.894	10.970 16.986	1.00	31.58
ATOM	3960	C	LYS	D	688	-11.506	10.378 23.517	1.00	36.70
ATOM	3961	0	LYS	D	688	-11.271	11.326 24.266	1.00	33.38
ATOM	3962	N	ILE	D	689	-11.549	9.122 23.942	1.00	33.06
ATOM	3963	CA	ILE	ם	689	-11.255	8.806 25.328	1.00	28.70
ATOM	3964	CB	ILE	D	689	-11.438	7.301 25,607	1.00	30.88
ATOM	3965	CG2	ILE	D	689	-10.725	6.912 26.899	1.00	31.45
MOTA	3966	CG1	ILE	D	689	-12.927	6.971 25.721	1.00	32.57
ATOM	3967	CD1	ILE	D	689	-13.308	5.679 25.031	1.00	29.79
ATOM	3968	C	ILE	D	689	-9.790	9.193 25.541	1.00	27.64
ATOM	3969	0	ILE	D	689	-9.405	9.649 26.611	1.00	25.54
ATOM	3970	N	LEU	D	690	-8.985	9.021 24.496	1.00	24.25
ATOM	3971	CA	LEU	D	690	-7.563	9.348 24.549	1.00	26.63
ATOM	3972	CB	LEU	Ø	690	-6.903	9.021 23.200	1.00	22.83
ATOM	3973	CĢ	LEU	D	690	-5.433	9.387 22.992	1.00	25,47
ATOM	3974	CD1	LEU	D	690	-4.595	8.772 24.108	1.00	24.03
ATOM	3975	CD2	LEU	D	690	-4.956	8.898 21.616	1.00	20,87
ATOM	3976	С	LEU	D	690	-7.344	10.823 24.902	1.00	26.64
ATOM	3977	0	LEU	D	690	-6.408	11.165 25.625	1.00	28.34
MOTA	3978	N	HIS	D	691	-8.206	11.694 24.383	1.00	27.77
ATOM	3979	CA	HIS	D	691	-8.107	13.125 24.665	1.00	29.16
MOTA	3980	СВ	HIS	. D	691	-9.156	13.907 23.861	1.00	30.89
ATOM	3981	CG	HIS	D	691	-8.903	13.935 22.386	1.00	37.09
ATOM	3982	CD2	HIS	D	691	-7.750	14.000 21.679	1.00	41.39
ATOM	3983	ND1	HIS	D	691	-9.920	13.906 21.458	1.00	41.65
ATOM	3984	CE1	HIS	D	691	-9.407	13.953 20.242	1.00	44.64
ATOM	3985	NE2	HIS	D	691	-8.091	14.010 20.347	1.00	41.94
ATOM	3986	C	HIS	D	691	-8.338	13.373 26.159	1.00	26.65
ATOM	3987	ō	HIS	D	691	-7.602	14.120 26.802	1,00	24.50
ATOM	3988	N	ARG	D	692	-9.371	12.742 26.703	1.00	25.70
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ATOM	3989	CA	ARG	D	692	-9.691	12 612 56 114	1 00	20.13
ATOM	3990	CB	ARG	D	692	-10.959	12.912 28.114 12.134 28.472	1.00 1.00	29.11 - · 30.84
ATOM	3991	CG	ARG	D	692	-11.255	12.129 29.963	1.00	41.63
ATOM	3992	CD	ARG	Ď	692	-12.502	11.337 30.290	1.00	48.83
ATOM	3993	NE	ARG'	D	692	-13.618	12.198 30.647	1.00	54.50
ATOM	3994	CZ	ARG	D	692	-14.498	12.677 29.774	1.00	5.9.37
MOTA	3995	NH1	ARG	D	692	-14.392	12.371 28.486	1.00	60.97
ATOM	3996	NH2	ARG	D	692	-15.483	13.464 30.188	1.00	59.07
MOTA	3997	C	ARG	D	692	-8.548	12.451 29.011	1.00	28.30
MOTA	3998	0	ARG	D	692	-8.139	13.167 29.929	1.00	26.50
ATOM	3999	N	LEU	D	693	-8.030	11.259 28.737	1.00	24.87
MOTA	4000	CA	LEU	D	693	-6.943	10.705 29.536	1.00	27.17
ATOM	4001	CB	LEU	D	693	-6.674	9.254 29.116	1.00	28.45
ATOM ATOM	4002	CG CD1	LEU LEU	D D	693 693	-7.844 -7.575	8.300 29.391	1.00	30.40
ATOM	4004	CD1	LEU	D	693	-8.043	6,932 28.778 8.171 30.894	1.00	34.79 32.02
ATOM	4005	C	LEU	D	693	-5.670	11.539 29.440	1.00	25.96
ATOM	4006	ō	LEU	D	693	-4.948	11.700 30.428	1.00	27.01
ATOM	4007	N	LEU	D	694	-5.395	12.080 28.257	1.00	25.33
MOTA	4008	CA	LEU	D	694	-4.207	12.906 28.062	1.00	27.22
MOTA	4009	CB	ĻEU	D	694	-3.948	13.126 26.572	1.00	24.61
MOTA	4010	CG	LEU	D	694	-3.118	12.080 25.825	1.00	22.20
ATOM	4011	CD1	LEU	D	694	-3.230	12.332 24.324	1.00	21.13
MOTA	4012	CD2	LEU	D	694	-1.666	12.148 26.275	1.00	21.34
MOTA	4013	C	LEU	D	694	-4.336	14.270 28.742	1.00	32.40
ATOM ATOM	4014 4015	O N	LEU GLN	D D	694 695	-3.339 -5.570	14.889 29.102	1.00	31.55
ATOM	4015	CA	GLN	D -	695	-5.820	14.733 28.915 16.032 29.528	1.00	36.93 43.18
ATOM	4017	CB	GLN	D	695	-7.022	16.694 28.862	1.00	40.48
ATOM	4018	CG	GLN	D	695	-6.772	17.071 27.422	1.00	37.99
ATOM	4019	CD	GLN	D	695	-7.943	17.764 26.795	1.00	35.86
MOTA	4020	OE1	GLN	D	695	-7.863	18.895 26.342	1.00	38.84
MOTA	4021	NE2	GLN	D	695	-9.082	17.060 26.757	1.00	31.62
ATOM	4022	C	GLN	D	695	-6.049	16.009 31.034	1.00	48.74
ATOM	4023	0	GLN	D	695	-6.119	17.065 31.660	1.00	51.25
ATOM	4024	N	ASP	D	696	-6.175	14.818 31.611	1.00	54.01
ATOM ATOM	4025 4026	CA CB	asp asp	D D	696 696	-6.398 -6.217	14.702 33.047 13.238 33.485	1.00	62.23 63.97
MOTA	4027	CG	ASP	D.	696	-7.527	12.467 33.475	1.00 1.00	67.72
ATOM	4028	OD1	ASP	D	696	-8.528	12.996 32.941	1.00	68.11
ATOM	4029	OD2	ASP	D	696	-7.552	11.333 34.003	1.00	68.95
MOTA	4030	C	ASP	D	696	-5.456	15.622 33.840	1.00	65.60
ATOM	4031	0	ASP	D	696	-4.312	15.189 34.134	1.00	68.33
MOTA	4032	OXT	ASP	D	696	-5.874	16.755 34.140	1.00	69.20
HETATM	4033	0	HOH		1	16.153	-0.605 -4.425	1.00	17.11
HETATM	4034	0	HOH		2	16.570	-5.304-16.560	1.00	21.44
HETATM	4035	0	нон		3	18.526	0.742 -4.495	1.00	23.43
HETATM	4036	0	нон		4	13.647	-2.187 8.588	1.00	25.82
HETATM	4037	0	HOH		5	9.778	-5.825 2.509	1.00	20.58
HETATM HETATM	4038 4039	0	нон нон		6 7	17.072 24.920	-3.605 -8.015	1.00 1.00	18.38 25.74
HETATM	4040	0	НОН		8	7.321	-1.689 -2.780 -5.649 5.061	1.00	24.11
HETATM	4041	0	нон		9	25.976	-3.535 15.158	1.00	26.78
HETATM	4042	Ö	нон		10	15.088	-7.006-15.192	1.00	19.64
HETATM	4043	ō	нон		11	14.070	0.925 -5.953	1.00	20.55
HETATM	4044	0	нон		12	18.008	3.407 -6.654	1.00	32.30
HETATM	4045	0	НОН		13	31.949	-8.393 13.487	1.00	30.64
HETATM	4046	0	нон		14	19.625	-2.804 -4.279	1.00	24.45

HETATM	4047	0	нон	15	11.741	1.079-21.140	1.00	25.87	
HETATM	4048	0	нон	16	25.067	13.951 14.153	1.00	31.07	
HETATM	4049	0	нон	17	15.501	1.323-10.393	1.00	21.01	
HETATM	4050	0	нон	18	13.880	3.349-11.482	1.00	24.28	•
HETATM	4051	0	HOH	19	17.591	0.979 -8.828	1.00	35.26	
· HETATM	4052	0	НОН	20	23.682	-2.041 -0.314	1.00	37.90	
HETATM '	4053	0	нон	21	15.754	9.496 11.841	1.00	39.44	
HETATM	4054	0	нон	22	-4.943	7.574 -3.066	1.00		
HETATM	4055	0	нон	23	6.877	0.354-15.982			
HETATM	4056	0	НОН	24	15.806	-4.002 8.671			
HETATM	4057	0	нон	25	17.185		1.00		
HETATM	4058	0	нон	26	17.572		1.00		
HETATM	4059	0	нон	27	24.096		1.00	31.37	
HETATM	4060	0	нон	28	22.324	•	1.00	32.74	
HETATM	4061	0	нон	29		-12.361 -0.801	1.00	36.61	
HETATM	4062	0	нон	30	11.173	13.442 -2.719	1.00	35.41	
HETATM	4063	0	нон	31	15.438	-9.527 5.483	1.00	29.88	
HETATM	4064	0	нон	32	9.946	-6.564 5.983	1.00	35.05	
HETATM	4065	0	нон	33	7.599		1.00	38.68	
HETATM	4066	0	нон	34	20.112	10.503 -5.109	1.00	42.66	
HETATM	4067	0	нон	35	15.972	10.343 14.897	1.00	41.73	
HETATM	4068	0	нон	36	22.401	-5.914 -9.527	1,00	28.08	
HETATM	4069	0	нон	37	16.128	-0.899 -8.109	1.00	33.13	
HETATM	4070	O	нон	38	3.581	15.655 -3.706	1.00	41.37	
HETATM	4071	0	нон	39	31.900	13.545 21.339	1.00	37.79	
HETATM	4072	0	нон	40	20.058	-7.530 14,119	1.00	47.51	
HETATM	4073	0	нон	41	34.634	6.668 15.632	1.00	29.24	
HETATM	4074	Q	нон	42	17.968	10.511 -9.085	1.00	44.60	
HETATM	4075	0	нон	43	23.258		1.00	44.10	
HETATM	4076	0	нон	44	4.034	-1.472 27.521	1.00	15.22	
HETATM	4077	0	нон	45	-5.943	-0.018 36.088	1.00	21.11	
HETATM	4078	0	нон	46	6.084	-1.509 29.478	1.00	19.51	
HETATM	4079	0	нон	47	9.762	1.061 15.621	1.00	27.74	
HETATM	4080	0	нон	48	1.804	0.717 17.260	1.00	20.97	
HETATM	4081	0	нон	49	0.929	0.421 30.281	1.00	19.64	
HETATM	4082	0	нон	50	9.627	4.271 31.231	1.00	19.02	
HETATM	4083	0	нон	51	2.121	-0.261 13.654	1,00	26.09	
HETATM	4084	Q	нон	52	20.060	10,275 17,711	1.00	25.49	
HETATM	4085	0	нон	53	-6.786	0.736 33.483	1.00	22.34	
HETATM	4086	0	нон	54	2.751	-4.136 27.760	1.00	19.93	
HETATM	4087	0	HOH	55	5.994	-4.079 31.292	1.00	32.27	
HETATM	4088	0	нон	56	19.416	16.921 21.645	1.00	25.54	
HETATM	4089	0	нон	5 7	4.833	2.325 29.006	1.00	19.00	
HETATM	4090	0	нон	58	-7.638	-8.931 37.809	1.00	24.79	
HETATM	4091	0	нон	59	28.442	-4.673 21.875	1.00	24.32	
HETATM	4092	0	НОН	60	1.094	-4.893 32.100	1.00	24.27	
HETATM	4093	0	нон	61	0.905	-7,306 32.783	1.00	21.33	
HETATM	4094	O	нон	62	3.396		1.00	26.13	
HETATM	4095	0	нон	63	10.363	4.576 28.391	1.00	33.43	
HETATM	4096	0	нон	64	19.551	-6.473 16.597	1.00	35.38	
HETATM		0	нон	65		-19.627 15.665	1.00	27.99	
HETATM		0	нон	66	-7.275	-9.745 31.077	1.00	27.00	
HETATM		0	нон	67	10.189	3.580 16.510	1.00	24.19	
HETATM		0	нон	68	2.741	0.716 28.382	1.00	16.48	
HETATM		0	нон	69	23.522	-4.323 13.943	1.00	27.48	
HETATM		o	нон	70	17.133	8.133 19.686	1.00	32.24	
HETATM		0	нон	71	-0.295	4.535 35.884	1.00	33.42	
HETATM	4104		нон	72	9.519	10.828 34.842	1.00	29.38	
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HETATM	4105	0	нон	73	6.291	14,878 29,070	1.00	28,21
HETATM	4106	0	нон	74	-1.721	6.480 13.381	1.60	49,91
HETATM	4107	0	нон	75	10.091		1.00	24,17
HETATM	4108	0	HOH	76	5.029	7.461 17.718	1.00	18.91
HETATM	4109	0	HOH	77	3.758	2.086 14.306	1.00	28.28
HETATM	4110	0	нон	78	-1.390	-18.739 33.183	1.00	41.11
HETATM	4111	. 0	HOH	79	12.703	-8.687 32.119	1.00	36.21
HETATM	4112	0	нон	80	22.270	-6.451 14.844	1.00	33.21
HETATM	4113	0	нон	81	1.458	4.605 34.026	1.00	23.59
HETATM	4114	0	HOH	82	1.759	-2.158 30.374	1.00	28.78
HETATM	4115	0	нон	83	6.153	-21.372 23.188	1.00	31.14
HETATM	4116	0	нон	84	36.525	0.463 20.792	1.00	45.26
HETATM	4117	0	HOH	85	13.832	9.696 13.792	1.00	33.12
HETATM	4118	0	нон	86	31.166	6.635 24.924	1.00	35.19
HETATM	4119	0	нон	87	8.844		1.00	48.80
HETATM	4120	0	нон	88	9.581	-6.956 34.136	1.00	42.95
HETATM	4121	0	нон	89	-1.563	15.887 27.596	1.00	39.35
HETATM	4122	0	нон	90	-5.286	10.345 32:757	1.00	35.20
HETATM	4123	0	нон	91	15.035	0.607 13.339	1.00	29.53
HETATM	4124	0	НОН	92	-10,984	-1.500 30,272	1.00	29.84
HETATM	4125	0	нон	93	-7.239	-0.271 -1.207	1.00	48.98
HETATM	4126	0	нон	94	18.022	-4.902 34.286	1.00	35.28
HETATM	4127	O	НОН	95	29.347	-6.319 19.920	1.00	37.20
HETATM	4128	0	нон	96	-14.309	-19.369 20.945	1.00	30.23
HETATM	4129	0	HOH	97	31.496	4.614 18.716	1.00	38.79
HETATM	4130	0	HOH	98	26.567	9.759 25.629	1.00	29.72
HETATM	4131	0	нон	99	2.848	14.531 1.134	1,00	38.08 \
HETATM	4132	0	нон	. 100	-9.373	5.699 -7.953	1,00	53.23
HETATM	4133	0.		101	-10,137	-0.553 -6.742	1.00	47.72
HETATM	4134	0	нон	102		-10.363 15.403	1.00	40.97
HETATM	4135	0	НОН	103	21.079	17,166 18.929	1.00	32.40
HETATM	4136	0	нон	104	25.810	-5.921 22.506	1.00	37.69
HETATM	4137	0	нон	105	22.493	-1.311 34.465	1.00	49.94
HETATM	4138	0	нон	106	19.317	10.977 38.703	1.00	40.60
HETATM	4139	0	нон	107	4.479	13.951 3.045	1.00	45.33
HETATM HETATM	4140	0	нон	108	20.418	19.353 34.044	1.00	42.18
HETATM	4141	0	нон	109	-3.065	8.936 14.062	1.00	38.41
HETATM	4142	0	нон нон	110	26,856			
HETATM	4144	Ö	нон	111 112	2.032 0.601	-6.387 5.614 0.228-17.268	1.00	42.23
HETATM	4145	Ö	нон	113	4.903		1.00	40.57
HETATM	4146	ò	нон	114	3.986	13.488-14.050 16.140 -0.960	1.00	47.72
HETATM	4147	o	нон	115		-19.561 2.741	1.00	40.66
HETATM	4148	Ö	нон	116	7.170	15.583 2.599	1.00	40.76 43.69
HETATM	4149	ð	нон	. 117	-1.966	10.606 3.572	1.00	52.63
HETATM	4150	o	нон	118	29.030	10.644 6.707	1.00	42.54
HETATM	4151	ō	нон	119	0.468	4.354 8.374	1.00	38.69
HETATM	4152	Ö	нон	120	29.086	17.119 19.272	1.00	45,51
HETATM	4153	ō	нон	121	24.614	17.609 20.174	1.00	\$3.55
HETATM	4154	ō	нон	122	-15,318	0.362 26.686	1.00	36.77
HETATM	4155	ō	нон	123	· ·	-24.786 28.325	1.00	39.64
HETATM	4156	ō	нон	124	21.728	22.178 31.983	1.00	43.73
HETATM	4157	ō	НОН	125	31.650	-7.370 21.642	1.00	49.53
HETATM	4158	ō	нон	126	25.421	10.436 21.161	1.00	32.31
HETATM	4159	ō	НОН	127	10.317	-9.457 12.998	1.00	37.77
HETATM	4160	0	нон	128	22,723	14.887 15.427	1.00	47.90
HETATM	4161	0	нон	129	6.702	9.556 37.596	1.00	
HETATM		0	нон	130	27.987	13.557 7.167	1.00	41.15
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HETATM	4163	0	нон	131	30.798	16.499 7.588	1.00	58.47
HETATM	4164	0	нон	132	10.071	-0.571-20.393	1.00	38.79
HETATM	4165	0	HOH	133	9.562	8.334-21.392	1.00	36.80
HETATM	4166	0	нон	134	6.712	6.058 8.822	1.00	37.43
HETATM	4167	0	HOH	135	5.927	8.454 10.594	1.00	42.34
HETATM	4168	0	нон	136	4.472	6.306 10.973	1.00	37.35
HETATM	4169	0	HOH	137	6.792	7.721 7.051	1.00	47.23
HETATM	4170	Q	нон	138	24.513	11.582 33,724	1.00	45.55
HETATM	4171	0	нон	139	-2.528	-20.361 12.354	1.00	52.13
Hetatm	4172	0	HOH	140	-7.864	7.706 19.248	1.00	47.82
HETATM	4173	0	HOH	141	11.577	-16.962 34.398	1.00	39.43
HETATM	4174	0	HOH	142	18.087	12.263 -5.507	1.00	33.36
HETATM	4175	0	нон	143	-6.816	-14.190 10.674	1.00	51.32
HETATM	4176	Θ	нон	144	-7.377	-16.701 33.528	1.00	57.11
HETATM	4177	0	HOH	145	-5.379	-20.107 32.689	1.00	43.01
HETATM	4178	0	нон .	146	8.766	-7.947-16.274	1.00	49.96
HETATM END	4179	O	НОН	147	10.946	-7.937-18.142	1.00	55.67

 ${\bf Appendix~3}$ Atomic Coordinates for Human ER α Complexed With OHT

CRYST1	58.24	2 58.	242	277.46	7 90.00	90.00 1	.20.00	P 65	2 2 :	12
ORIGX1	1.00	00000	0.00	0000	0.00000	0.000	00			
ORIGX2	0.00	00000	1.00	9000	0.000000	0.000	00			
ORIGX3		00000	0.000		1.000000					
SCALE1		17170	0.00		0.000000		•			
SCALE2		00000	0.01		0.000000					
SCALE3		00000	0.000		0.003604					
00	, , , , , , , , , , , , , , , , , , ,					2.040	• •			
ATOM	1	CB	LEU	306	6.638	11.502	3.989	1.00	61.20	
MOTA	2	C	LEU	306	7.381	10,684	6.231	1.00	61.47	
MOTA	3	0	LEU	306	6.407	11.020	6.905	1.00	62.09	
ATOM	4	N	LEU	306	6.369	9.128	4.588	1.00	62.32	
ATOM	5	CA	LEU	306	7.232	10.330	4.754	1.00	61.30	
MOTA	6	N	ALA	307	8.609	10.605	6.730	. 1.00	60.52	
ATOM	7	CA	ALA	307	8.891	10.912	8.125	1.00	58.77	
ATOM	8	CB	ALA	307	10.318	10.501	8.465	1.00	59.70	
ATOM	9	C	ALA	307	8.692	12.393	8.429	1.00	57.51	
ATOM	10	0	ALA	307	8.451	12.770	9.574	1.00	57.64	
MOTA	11	N	LEU	308	8.789	13.228	7.400		55.82	
MOTA	12	CA	LEU	308	8,638	14.668	7,573	1.00	56.62	
ATOM	13	CB	LEU	308	9.298	15.402	6.406		57.48	
ATOM	14	CG	LEU	308	10.637	14.822	5.948		59.17	
ATOM	15	CD1	LEU	308	10.474	14.189	4.569		60.38	
ATOM	16	CD2	LEU	308	11.694	15.920	5.933	1.00	58.46	
MOTA	17	С	LEU	308	7.190	15.130	7.710		56.51	
ATOM	1.8	0	LEU	308	6.935	16.307	7.961		55.58	
MOTA	19	N	SER	309	6.246	14.208	7.546		57.04	
MOTA	20	CA	SER	309	4.828	14,544	7.657		56.46	
ATOM	21	CB .	SER	309	4.034	13.896	6.514	1.00	56.79	
ATOM	22	OG	SER	309	4.071	12.479	6.588	1.00	57.23	
ATOM	23	C	SER	309	4.261	14.095	9.003	1.00	56.13	
ATOM	24	0	SER	309	3.166	14.507	9.398	1,00	55.17	
ATOM	25	N	LEU	310	5.016	13.257	9.706	1.00	54.31	
ATOM	26	CA	LEU	310	4.591	12.749	11.004	1.00	53.55	
ATOM	27	CB	LEU	310	5.651	11.811	11.582 /11.189	1.00	54.40	
ATOM ATOM	28	CG	LEU LEU	310	5,586	10.333	9.676	1.00	56.49	
	29	CD1 CD2	LEU	310 310	5.530 6.809	10.200 9.610	11.739	1.00	57.06 57.28	
ATOM ATOM	30	CDZ			4,330					
ATOM	31 32	0	LEU	310 310	4.993	13.865 14.905	12.003 11.984	1.00	53.18 53.17	
ATOM	33			311	3.352	13.641		1.00		
	34	N CA	THR THR	311	3.352	14.604	12.874 13.912	1.00	51.71 49.93	
ATOM	35	CB	THR	311	1.527	14.554	14.275	1.00	48.96	
ATOM	36	OG1	THR	311	1.242	13.311	14.275	1.00	47.20	
ATOM	37	CG2	THR	311	0.666	14.688	13.027	1.00	50.99	
ATOM	38	C	THR	311	3.815	14.201	15.145	1.00	48.84	
ATOM	39	0	THR	311	4.371	13.103	15.145	1.00	46.66	
ATOM	40	N	ALA	312	3.857	15.078	16.141	1.00	48.76	
ATOM	41	CA	ALA	312	4.590	14.798	17.369	1.00	47.75	
ATOM	42	CB	ALA	312	4.359	15.910	18.378	1.00	47.06	
ATOM	43	C	ALA	312	4.171	13.460	17.964	1.00	47.41	
	44	0	ALA	312	5.009	12.609	18.262	1.00	45.52	
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ATOM	45	N	ASP	313	2.868	13.275	18.143	1.00	47.58	•
ATOM	46	CA	ASP	313	2.367	12.032	18.714			- ·
ATOM	47	CB	ASP	313	0.848	12.100	18.879		51.96	
ATOM	48	CG	ASP	313	0.430	12.872	20.118	1.00	56.21	
ATOM	49	OD1	ASP	313	1.314	13.234	20.110	1.00	56.38	
ATOM	50	OD2	ASP	313	-0.785	13.117	20.282	1.00	59.15	
ATOM	51	Ç	ASP	313	2.745	10.846	17.835	1.00	43.93	
ATOM	52	Ö	ASP	313	2.959	9.741	18.330	1.00	44.77	
ATOM	53	N	GLN	314	2.826	11.081	16.531	1.00	44.52	
ATOM	54	CA	GLN	314	3.182	10.028	15.588	1.00	44.73	
ATOM	55	CB	GLN	314	2.849	10,464	14.156	1.00	45.05	
ATOM	56	CG	GLN	314	1.534	9.886	13.626	1.00	48.47	
MOTA	57	CD	GLN	314	0.982	10.646	12.428	1.00	50.37	
MOTA	58	OE1	GLN	314	1.649	11.515	11.856	1.00	49.38	
MOTA	59	NE2	GLN	314	-0.248	10.318	12.043	1.00	51.74	
ATOM	60	C	GLN	314	4.673	9.722	15.707	1.00	43.26	
MOTA	61	0	GLN	314	5.100	8.580	15.555	1.00	43.93	
ATOM	62	N	MET	315	5.459	10.757	15.980	1.00	42.29	•
ATOM	63	CA	MET	315	6.901	10.606	16.130	1.00	41.26	
ATOM	64	CB	MET	315	7.565	11.985	16.224	1,00	42.43	
ATOM	65	CĢ	MET	315	9.082	11.939	16.356	1.00	42.34	
ATOM	66	SD	MET	315	9.906	11.190	14.925	1.00	46.22	
ATOM	67	CE	MET	315	9.547	12.408	13.680	1.00	37.32	
ATOM	68	C	MET	315	7.218	9.791	17.379	1.00	38.89	~
ATOM	69	0	MET	315	8.002	8.841	17.335	1.00	40.02	
ATOM	70 '	7.4	VAL	316	6.599	10.165	18.491	1.00	37.65	
ATOM	71	CA	VAL	316	6.819	9.476	19.756	1.00	39.56	
MOTA	72	CB	VAL	316	6.023	10.136	20.897	1.00	39.22	
MOTA	73	CG1	VAL	316	6.245	9.373	22.192	1.00	44.43	
ATOM	74	CG2	VAL	316	6.446	11,583	21.059	1.00	41.04	
ATOM	75 76	C	VAL	316	6.404	8.012	19.664	1.00	40.04	
ATOM ATOM	76 77	0 N	VAL SER	316	7,141	7.117	20.077	1.00	37.86	
ATOM	78	CA	SER	317 317	5.215 4.733	7.767 6.400	19.127 18.997	1.00	41.90	
ATOM	79	CB	SER	317	3.311	6.402	18.415	1.00	41.68 43.85	
ATOM	80	QG	SER	317	3.225	5.631	17.230	1.00	49.38	
ATOM	81	Ċ	SER	317	5.696		18.114		39.72	
ATOM	82	ō	SER	317	6.011	4.446	18.407	1.00	40.21	
ATOM	83	N	ALA	318	6.182	6.220	17.043	1.00	38.35	
ATOM	84	CA	ALA	318	7.114	5.540	16.153	1.00	36.96	
ATOM	85	CB	ALA	318	7.485	6.448	14.986	1.00	37.92	
MOTA	86	С	ALA	318	8.375	5.137	16.920	1,00	38.31	
ATOM	87	0	ALA	318	8.820	3.992	16.844	1.00	33.94	
ATOM	88	N	LEU	319	8.938	6.089	17.664	1.00	36.92	
ATOM	89	CA	LEU	319	10.161	5.854	18.438	1.00	38.56	
ATOM	90	CB	LEU	319	10.660	7.174	19.040	1.00	40.86	
ATOM	91	CG	LEU	319	11.136	8.264	18.071	1,00	41.25	
ATOM	92 ·	CD1	LEU	319	11.714	9.440	18.857	1.00	44.30	
ATOM	93	CD2	LEU	319	12.182	7.693	17.140	1,00	42.61	
ATOM	94	С	LEU	319	9.965	4.826	19.549	1.00	38.33	
ATOM	95	0	LEU	319	10.779	3.916	19.729	1.00	33.91	
ATOM	96	N	LEU	320	8.879	4.982	20.297	1.00	37.39	
ATOM	97	CA	LEU	320	8.567	4.067	21.387	1.00	41.55	
ATOM	98	CB	LEU	320	7.239	4.467	22.049	1.00	38.47	
ATOM	99	CG	LEU	320	7.236	5.582	23.099	1.00	44.81	
ATOM	100	CD1	LEU	320	5.876	5.634	23.802	1.00	44.96	
ATOM ATOM	101	CD2	LEU	320	8.334	5.332	24.112	1.00	43.36	
AT ON	102	С	LEU	320	8.466	2.642	20.843	1.00	41.11	

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ATOM	103	0	LEU	320	8.971	1.697	21.443	1.00	41.87	* *
ATOM	104	N	ASP	321	7.812	2.504	19.696	1.00	43.94	
MOTA	105	CA	ASP	321	7.613	1.210	19.053	1.00	44.77	
MOTA	106	CB	qea ees	321	6.669	1.372	17.860	1.00	48.39	
ATOM	107	CG	ASP	321	5.206	1.318	18.255	1.00	52.39	
ATOM	108	OD1	ASP	321	4.901	1.422	19.464	1.00	53.56	
MOTA	109	OD2	ASP	321	4.357	1.172	17.346	1.00	55.81	
MOTA MOTA	110 111	ල ව	asp asp	321 321	8.911 9.030	0.565 -0.661	18.568 18.533	1,00	44.37	
ATOM	112	И	ALA	322	9.878	1.395	18.193	1.00	44.67 40.75	
ATOM	113	CA	ALA	322	11.153	0.905	17.686	1.00	37.81	
ATOM	114	CB	ALA	322	11.772	1,954	16.776	1.00	38.07	•
ATOM	115	C	ALA	322	12.148	0.513	18.769	1.00	35.52	
ATOM	116	ō	ALA	322	13.219	-0.020	18.473	1.00	36.11	
ATOM	117	N	GLU	323	11.799	0.768	20.022	1.00	35.61	
ATOM	118	CA	GLU	323	12.704	0.460	21.117	1.00	36.39	
ATOM	119	CB	GLU	323	12.042	0.768	22.459	1,00	35.09	
ATOM	120	CG	GLU	323	12.209		22.899	1.00	37.93	
ATOM	121	CD	GLU	323	13.657	2.569	23.200	1.00	37.29	
ATOM	122	OE1	GLU	323	14.313	3.173	22.326	1.00	34.21	
ATOM	123	OE 2	GLU	323	14.134	2.245	24.309	1.00	38.02	
ATOM	124	C	GLU	323	13.205	-0.978	21.110	1.00	38.01	
ATOM	125	0	GLU	323	12.425	-1.931	20.999	1.00	38.37	
MOTA	126	N	PRO	324	14.527	-1.151	21.225	1.00	36.03	-
ATOM	127	CD	PRO	324	15.522	-0.069	21.345	1.00	36.69	
ATOM	128	CA	PRO	324	15.158	-2.474	21,240	1.00	36.42	
ATOM	129	CB	PRO	324	16.633	-2.166	21.003	1,00	35.75	
ATOM	130	CG	PRO	324	16.811	-0.807	21.610	1.00	35.46	
MOTA	131	C	PRO	324	14.940	-3,162	22.583	1.00	35,75	
MOTA	132	0	PRO	324	14.616	-2.517	23.580	1.00	34.97	
ATOM	133	N	PRO	325	15.134	-4.485	22.631	1,00	35.24	
MOTA MOTA	134 135	CD CA	PRO	325	15.530	-5.386	21.534	1.00	37.02	
ATOM	136	CB	PRO PRO	325 325	14.942 14.753	-5.208 -6.652	23.889 23.439	1.00 1.00	34.65 35.83	
ATOM	137	CG			15.589					
ATOM	138	C	PRO PRO	325 325	16.132	-6.743 -5.070	22.200 24.824	1.00	34.88 34.51	
ATOM	139	Õ	PRO	325	17.237	-4.723	24.399	1.00	29.92	
ATOM	140	N	ILE	326	15.899	-5.322	26.106	1.00	33.62	
ATOM	141	CA	ILE	326	16.975	-5.265	27.075	1.00	35.02	
ATOM	142	CB	ILE	326	16.458	-4.891	28.473	1.00	38.11	
ATOM	143	CG2	ILE	326	17.557	-5,110	29.504	1.00	38.70	
ATOM	144	CG1	ILE	326	15.987	-3.431	28.466	1.00	40.48	
ATOM	145	CD1	ILE	326	16.035	-2.747	29.815	1.00	42.96	
ATOM	146	C	ILE	326	17.567	-6.668	27.103	1.00	34.14	
ATOM	147	0	ILE	326	16.875	÷7.634	27.427	1.00	34.88	
ATOM	148	N	LEU	327	18.840	-6.784	26.745	1.00	29.64	
ATOM	149	CA	LEU	327	19.493	-8.083	26.716	1.00	29.54	
ATOM	150	CB	LEU	327	20.528	-8.135	25.587	1.00	27.76	
ATOM	151	CG	LEU	327	19.978	-7.800	24.196	1.00	29.02	
ATOM	152	CD1	LEU	327	21.068	-7.993	23.139	1.00	28.76	
ATOM	153	CD2	LEU	327	18.775	-8.688	23.891	1.00	31.26	
ATOM	154	С	LEU	327	20.156	-8.438	28.030	1,00	31.21	
ATOM	155	0	LEU	327	20.393	-7.578	28.891	1.00	30.12	
ATOM	156	N	TYR	328	20.445	-9.725	28.181	1.00	30.99	
ATOM	157	CA	TYR	328		-10.229	29.381	1.00	30.95	
ATOM	158	CB	TYR	328		-11.520	29.842	1.00	33.38	
ATOM ATOM	159 160	CG CD1	TYR TYR	328 328		-11.272 -11.398	30.686 32.071	1.00 1.00	33.05 31.92	

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ATOM	161	CE1	TYR	328	18.152	-11.114	32.864	1.00	36.01	- •
MOTA	162	CD2	TYR	328	17.996	-10.862	30.110	1.00	36.05	
MOTA	163	CE2	TYR	328	16.880	-10.574	30.899	1.00	37.27	
MOTA	164	cz	TYR	328	16.973	-10.702	32.274	1.00	37.66	
ATOM	165 166	OH C	TYR TYR	328 328	15.896	-10.397	33.071	1.00	44.66	
ATOM ATOM	167	0	TYR	328	22.529 22.884	-10.520 -10.744	29.067 27.910	1.00	33.66 34 .78	
ATOM	168	N	SER	329	23.359	-10.496	30.103	1.00	33.97	
MOTA	169	CA	SER	329	24.767		29.962	1.00	37.29	
ATOM	170	CB	SER	329	25.526	-10.342	31.204	1,00	36.51	
MOTA	171	OG	SER	329	26.787	-10.965	31.282	1.00	37.13	•
MOTA	172	С	SER	329	24.835	-12.317	29.832	1.00	40.43	
MOTA	173	0	SER	329	23.980	-13.028	30,363	1.00	40.11	
ATOM	174	N	GLU	330	25.845	-12.811	29.128	1.00	41.40	
ATOM	175	CA	GLU	330	25.992	-14.242	28.928	1.00	47.43	
MOTA MOTA	176 177	CB CG	GLU	330 330	26.423	-14.524	27.484	1,00	48.64	
ATOM	178	CD	GTA	330	25.278 25.765	-14.870 -15.405	26.542 25.198	1.00	50.20 53.25	
ATOM	179	OE1	GLU	330	25.703	-16.640	25.062	1.00	53.27	
ATOM	180	OE2	GLU	330	26.004	-14.590	24.280	1.00	51.80	
ATOM	181	С	GLU	330	26.999	-14.852	29.893	1.00	49.67	
ATOM	182	0	GLU	330	28.207	-14.741	29.696	1.00	50.11	
MOTA	183	N	TYR	331	26.498	-15.493	30.942	1.00	53.62	
ATOM	184	CA	TYR	331	27.373	-16.130	31.921	1.00	58.16	-
ATOM	185	CB	TYR	331	28.092	-15.078	32.774	1.00	59.55	•
ATOM	186	CG	TYR	331	27.239	-14.460	33.860	1.00	63.08 64.50	
ATOM ATOM	187 188	CD1 CE1	TYR TYR	331 331	26.656 25.864	-13.205 -12.630	33.682 34.676	1.00	65.99	
ATOM	189	CD2	TYR	331	27.010	-15.128	35,065	1.00	63.52	
ATOM	190	CE2	TYR	331	26.219	-14.563	36.066	1.00	65.60	
ATOM	191	CZ	TYR	331	25.648	-13.314	35.864	1.00	67.20	•
ATOM	192	OH	TYR	331	24.855	-12.753	36.839	1.00	67.40	
MOTA	193	C	TYR	331	26.603	-17.080	32.823	1.00	59.05	
ATOM	194	0	TYR	331	25.393	-16,942	33.002	1.00	59,22	
ATOM	195	N	ASP	332	27.320	-18.045 -19.026	33.387	1.00	61.62	
ATOM ATOM	196 197	CA CB	asp asp	332 332	27.681		34,281 34.500	1.00	64.20 65.99	
ATOM	198	CG	ASP	332	26.961		34.648	1.00	68.11	
ATOM	199	OD1	ASP	332	27.575		34.351	1.00	69.54	
ATOM	200	OD2	ASP	332	25.781	-21.505	35.060	1.00	67.40	
ATOM	201	С	ASP	332	26.393		35.619	1.00	63.33	
ATOM	202	0	ASP	332		-18.073	36.406	1.00	63.90	
ATOM	203	N	PRO	333		-18.148	35.896	1.00	63.64	
ATOM ATOM	204 205	CD CA	PRO PRO	333 333		-18.509 -17.521	35.053 37.154	1.00 1.00	64.35 63.52	
ATOM	205	CB	PRO	333		-17.333	36.993	1.00	63.52	
ATOM	207	CG	PRO	333		-17.611	35.556	1.00	64.15	
ATOM	208	C	PRO	333		-18.419	38.332	1.00	63.29	
ATOM	209	0	PRO	333		-17.964	39.468	1.00	63.28	
ATOM	210	N	THR	334		-19.704	38.037	1.00	64.26	
ATOM	211	CA	THR	334		-20.697	39.050	1.00	66.09	
ATOM	212	CB	THR	334		-22.080	38.645	1.00	66.90	
ATOM	213	OG1	THR	334		-22.513	37.439	1.00	68.06	
ATOM	214	CG2	THR	334		-22.012	38.411	1.00	67.57	
ATOM ATOM	215 216	С 0	THR THR	334 334		-20.804 -21.323	39.269 40.289	1.00	65.67 64.77	
ATOM	217	N	ARG	335		-20.308	38.313	1.00	65.65	
ATOM	218	CA	ARG	335		-20.360	38.421	1.00	66.60	

ATOM	219	CB	ARG	335	29.835	-20.500	37.030	1.00	66.74	
MOTA	220	¢	arg	335	29.757	-19.113	39.123	1.00	67.09	
MOTA	221	O	ARG	335	29.100	-18.071	39.148	1.00	67.31	
ATOM	222	N	PRO	336	30.968	-19.207	39.702	1.00	67.62	
MOTA	223	CD	PRO	336	31.820	-20.408	39.713	1.00	67.30	
ATOM	224	CA	PRO	336	31.601	-18,086	40.410	1.00	67.42	
ATOM	225	CB	PRO	336	32.982	-18.621	40.783	1.60	66.43	
ATOM	226	CG	PRO	336	32.829	-20.097	40.779	1.00	67.52	
ATOM	227	C	PRO	336	31.701	-16.828	39.561	1.00	68.26	
ATOM	228	0	PRO	336	31.996	-16.895	38.371	1.00	69.04	
MOTA	229	N	PHE	337	31,460	-15.681	40.183	1.00	69.49	
ATOM	230	CA	PHE	337	31.529	-14.408	39.480	1,00	71.39	
MOTA	231	CB	PHE	337	30.818	-13.323	40.294	1.00	72.31	
ATOM	232	CG	PHE	337	31.219	-11.924	39.921	1.00	73.21	
MOTA	233	CD1	PHE	337	30.632	-11.287	38.833	1.00	72.83	
ATOM	234	CD2	PHE	337	32.191	-11.245	40.653	1.00	73.43	
ATOM	235	CE1	PHE	337	31.006	-9.993	38.479	1.00	73.28	
MOTA	236	CE2	PHE	337	32.573	-9.950	40.306	1.00	73.00	
ATOM	237	CZ	PHE	337	31.980	-9.323	39.217	1.00	72.90	
ATOM	238	С	PHE	337	32.985	-14.013	39.245	1.00	71.38	
ATOM	239	0	PHE	337	33.336	-13.487	38.189	1.00	71.56	
ATOM	.240	N	SER	338	33.825	-14.273	40.241	1,00	71.53	
MOTA	241	CA	SER	338	35.248	-13.947	40.172	1.00	70.98	
ATOM	242	CB	SER	338	35.957	-14.487	41.414	1.00	70.43	
ATOM	243	OG	SER	338	35.547	-15.818	41.679	1.00	69.59	
AŢOM	244	С	SER	338	35.931	-14.504	38.924	1,00	71.20	
ATOM	245	Q	SER	338	36.951	-13.972	38.475	1.00	71.35	•
MOTA	246	N	GLU	339	35.368	-15.573	38.369	1.00	70.20	
ATOM	247	CA	GLU	339	35.930	-16.215	37.183	1.00	69.48	
ATOM	248	CB	GLU	339	35.279	-17.585	36.971	1.00	71.07	
ATOM.	249	CG	GLU	339	35,996	-18.740	37.656	1,00	72.60	
ATOM	250	CD	GLU	339	35.382	-20.089	37.318	1,00	74.26	
ATOM	251	OE1	GLU	339	34.786	-20.220	36.227	1.00	73.51	
ATOM	252	OE2	GLU	339	35.496	-21.020	38.144	1.00	76.44	
ATOM	253	C	GLU	339	35.770	-15.385	35.910	1,00	68.15	
ATOM	254	0	GLU	339	36.722	-15.216	35.144	1.00	68.99	
ATOM	255	N	ALA	340	34.562	-14.874	35.694	1.00	64.41	
ATOM	256	CA	ALA	340	34.246	-14.083	34.507	1.00	60.69	
ATOM	257	ĊВ	ALA	340	32.767		34.523	1.00	61.17	
MOTA	258	C	ALA	340		-12.824	34.326	1.00	57.00	
ATOM	259	0	ALA	340		-12.270	35.287	1.00	57.46	
ATOM	260	N	SER	341		-12.388	33.076	1.00	52.15	
ATOM	261	CA	SER	341	35.972	-11,188	32.736	1.00	46.53	
ATOM	262	CB	SER	341		-11.439	31.497	1.00	48.64	
ATOM	263	og	SER	341	37.184	-10.226	30.846	1,00	46.48	
MOTA	264	C	SER	341	34.957	-10.087	32.444	1.00	43.52	
ATOM	265	0	SER	341	34.090	-10.248	31.589	1.00	39.92	
ATOM	266	N	MET	342	35.052	-8.978	33.166	1.00	41.24	
MOTA	267	CA	MET	342	34.121	-7.875	32.960	1.00	42.46	
ATOM	268	CB	MET	342	34.449	-6.723	33.912	1.00	45.61	
ATOM	269	CG	MET	342	33.228	-6.089	34.560	1.00	52.39	
ATOM	270	SD	MET	342	31.791	-7.201	34.631	1.00	57.92	
ATOM	271	CE	MET	342	31.999	-7.881	36.239	1.00	56.18	
ATOM	272	c	MET	342	34.124	-7.365	31.516	1.00	40.22	
ATOM	273	0	MET	342	33.063	-7.121	30.938	1.00	39.23	
ATOM	274	N .	MET	343	35.307	-7.204	30.930	1.00	38.72	
ATOM	275	CA	MET	343	35.395	-6.708	29.558	1.00	38.50	
ATOM	276	CB	MET	343	36.838	-6.318	29.216	1.00	41.15	

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•	ATOM	277	CG	MET	343	37.022	-5.749	27.804	1.00	40.31	- •
	ATOM	278	SD	MET	343	36.032	-4.260	27,427	1.00	45.23	
	ATOM	279	CE	MET	343	36.113	-3.358	28.987	1,00	40.45	
	MOTA	280	C	MET	343	34.880	-7.741	28.561	1.00	35.36	
	ATOM	281	0	MET	343	34.368	-7.384	27.501	1.00	35.51	
	MOTA	282	N	GLY	344	35.017	-9,020	28.902	1.00	35.53	
	MOTA	283	CA	gly	344	34.533	-10.072	28.024	1.00	33,41	
	MOTA	284	C	GLY	344	33.015	-10.063	28,047	1.60	31.74	
	ATOM	285	O	GLY	344	32.359	-10.233	27.019	1.00	29.58	•
	ATOM	286	Ŋ	LEU	345	32.459	-9.860	29,238	1.00	32.89	
	ATOM	287	CA	LEU	345	31.011	-9.804	29.415	1.00	34.95	
-	ATOM	288	CB	LEU	345	30.665	-9.631	30.902	1.00	37.56	
	ATOM	289	CG	LEU	345	30.942	-10.774	31.883	1.00	43.03	
	ATOM	290	CD1	LEU	345	30.537	-10.357	33.297	1.00	41.57	
	ATOM	291	CD2	LEU	345	30,164	-11.998	31.449	1.00	42.80	
	ATOM	292	C	Leu	345	30.430	-8.614	28.633	1.00	33.71	•
	ATOM	293	ō	LEU	345	29.479	-8.757	27.868	1.00	30,29	
	ATOM	294	N	LEU	346	31.021	-7.443	28.843	1.00	30.20	
	ATOM	295	CA	LEU	346	30.569	-6.217	28,193	1.00	32.00	
•	ATOM	296	CB	LEU	346	31.317	-5.016	28.771	1.00	28.16	
	ATOM	297	CĢ	LEU	346	31.091	-4.767	30.269	1.00	29.84	
	ATOM	298	CD1	LEU	346	31.815	-3.498	30.668	1.00		
	ATOM	299	CD2	LEU	346	29.614	-4.644	30.581	1.00	33.97	
	ATOM	300	C	LEU	346	30.732	-6.250	26.682	1.00	30.70	-
	ATOM	301	ō	LEU	346	29.869	-5.765	25.955	1.00	29.13	
	ATOM	302	N	THR	347	31.839	-6.816	26.212	1.00	30.47	
	ATOM	303	CA	THR	347	32.086	-6.911	24.781	1.00	30.93	
	ATOM	304	CB	THR	347	33.472	-7.501	24.497	1.00	29.97	
	ATOM	305	OG1	THR	347	34.481	-6.604	24.982	1.00	35.40	
ı	ATOM	306	CG2	THR	347	33.666	-7.707	23.004	1.00	33.58	
	ATOM	307	C	THR	347	31.036	-7.804	24.122	1.00	31.97	
	ATOM	308	õ	THR	347	30.516	-7.486	23.049	1.00	30.75	
	ATOM	309	Ŋ	ASN	348	30.737	-8.926	24.768	1.00	29.31	
	ATOM	310	CA	ASN	348	29.757	-9.868	24.242	1.00	32.63	
	ATOM	311	CB	ASN	348	29.767	-11.161	25.065	1.00	31.64	
	ATOM	312	CG	ASN	348		-12.117	24.662	1.00	39.14	
	ATOM	313	OD1	ASN	348	27.549	-12.078	25.220	1.00	41.91	
	ATOM	314	NDS	ASN	348		-12.970	23.683	1.00	42.05	
	ATOM	315	C	ASN	348	28.361	-9.251	24.262	1.00	29.62	
	ATOM	316	0	ASN	348	27.558	-9.477	23.353	1.00	32.76	
	ATOM	317	N	LEU	349	28.078	-8.467	25.298	1.00	28.74	•
	ATOM	318	CA	LEU	349	26.782	-7.811	25.421	1.00	28.58	
	ATOM	319	CB	LEU	349	26.650	-7.148	26.795	1.00	26.56	
	MOTA	320	CG	LEU	349	25.376	-6.328	27.050	1.00	33.67	
	ATOM	321	CD1	LEU	349	24.140	-7.199	26.840	1.00	28.82	
	ATOM	322	CD2	LEU	349	25.392	-5.779	28.471	1.00	33.11	
	ATOM	323	C	LEU	349	26.638	-6.762	24.319	1.00	28.07	
	ATOM	324	Õ	LEU	349	25.616	-6.703	23.629	1.00	25.22	
	ATOM	325	N	ALA	350	27.675	-5.941	24.157	1.00	28.50	
	ATOM	326	CA	ALA	350	27.668	-4.886	23.148	1.00	28.46	
	ATOM	327	CB	ALA	350	28.972	-4.094	23.146	1.00	28.12	
	ATOM	328	CP	ALA	350	27.468	-5.461	23.209	1.00	28.75	
	ATOM	329	0	ALA	350 350	26.649	-4.958	20.983	1.00	30.90	
	ATOM	330	Ŋ	ASP	351	28.213	-4.938 -6.509	20.983	1.00		•
	ATOM	331	CA	asp	351 351	28.093	-7.143	20.112		27.20	
	ATOM	332	CB	ASP	351 351	29.036	-7.143 -8.345	20.112	1.00	29.75	
	ATOM	332	CG	ASP	351	30.498	-0.345 -7.940	19,978	1.00	34.16	
	MOTA	334	OD1	ASP	351 351	31.354	-8.831		1,00 1.00	37.50	
	AT ON	-	CDI	ASF	331	31.334	-0.031	20.148	T.00	37,55	

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	ATOM	335	OD2	ASP	351	30.789	-6.738	19.784	1.00	35.50
	ATOM	336	C	ASP	351	26.661	-7.600	19.813	1.00	30.52
	ATOM	337	0	ASP	351	26 193	-7,458	18.687	1.00	27.77
	ATOM	338	N	ARG	352	25.968	-8.150	20.811	1.00	27.18
	ATOM	339	CA	ARG	352	24.593	-8.602	20.605	1.00	26.21
	ATOM	340	CB	ARG	352	24,148	-9.534	21.752	1.00	26.52
	ATOM	341	CG	ARG	352	24.567	-10.991	21.532	1.00	31.03
	ATOM	342	CD	ARG	352	24.128	-11.911	22.666	1.00	29.80
	ATOM	343	NE	ARG	352		-11.675	23.879	1.00	30.44
	ATOM	344	cz	ARG	352		-11.363	25.054	1.00	31.68
	ATOM	345	NH1	ARG	352		-11.251	25.177	1.00	31.18
	ATOM	346	NH2	ARG	352	25.144		26.104	1.00	32.03
	ATOM	347	C	ARG	352	23.642	-7.411	20.502	1.00	27.16
	ATOM	348	Ö	ARG	352	22.702	-7.426	19.708	1.00	26.65
	ATOM	349	N	ĢĽU	353	23.896	-6.370	21.291	1.00	
	MOTA	350	CA	GLU	353 353	23.045	-5.178	21.291	1.00	24.30 26.39
	MOTA	351	CB	GLU	353	23.461	-4.204	22.365	1.00	
	ATOM	351 352	CG	GLU	353 353	23.461	-4.669	23.771	1.00	24.91 27.93
	MOTA	352 353	CD	GLU	353 353	23.425	-3.587	24.795	1.00	30'.71
	ATOM	354	OE1	GLU	353	24.564	-3.587	24.795	1.00	30.71
i	ATOM	355.	OE2	GLU	353	22.506	-2.789	25.085	1.00	30.53
	ATOM	356	C	GLU	353	23.131	-4.456	19,920	1.00	24.27
	ATOM	35 7	0	GLU	353 353	22,169	-3.826	19,467	1.00	28.71
	ATOM	358	Ŋ	LEU	354	24.296	-4.540	19.293	1.00	26.61
	ATOM	359		LEU	354					
	ATOM	360	CA CB	LEU	354	24.522 25.952	-3.872 -4.121	18.017 17.543	1.00	26.62 26.36
	ATOM	361	CG	LEU	354	26.372	-3.257	16.351	1.00	29.24
	ATOM	362	CD1	LEU	354	26.243	-1.774	16.722	1.00	26.59
	ATOM	363	CD2	LEU	354	27.794	-3.607	15.962	1.00	28.88,
	ATOM	364	CDZ	LEU	354	23.559	-4.300	16.926	1.00	27.72
	ATOM	365	0	LEU	354	23.074	-3.475	16.152	1.00	24.00
	ATOM	366	Ŋ	VAL	355	23.074	-5.598	16.152	1.00	28.82
	ATOM	367	CA	VAL	355	22.386	-6.125	15.844	1.00	29.45
	ATOM	368	CB	VAL	355	22.259	-7.655	15.975	1.00	31.76
	ATOM	369	CG1	VAL	355	21.423	-8.205	14.834	1.00	33.55
	ATOM	370	CG3	VAL	355	23.649	-8.282	15,998	1.00	31.36
	ATOM	371	C	VAL	355	21.020	-5.499	16.035	1.00	27.71
	ATOM	372	0	VAL	355	20.382	-5.039	15.080	1.00	29.61
	ATOM	373	И	HIS	356	20.580	-5.473	17.288	1.00	27.76
	ATOM	374	CA	HIS	356	19.291	-4.906	17.627	1.00	28.35
	ATOM	375	CB	HIS	35.6	18.936	-5.231	19.079	1.00	31,12
	ATOM	376	CG ·	HIS	356	18.602	-6.675	19.307	1.00	35.93
	ATOM	377	CD2	HIS	356	19.352	-7.700	19.779	1.00	33.95
	ATOM	378	ND1	HIS	356	17.363	-7.208	19.018	1.00	36,62
	ATOM	379	CE1	HIS	356 356	17.363	-8.499	19.014	1.00	33.33
	ATOM	380	NE2	HIS	356	18.559	-8.823	19.767	1.00	32.16
	ATOM	381	C	HIS	356	19.300	-3.398	17.412	1.00	28.25
	ATOM	382	0	HIS	356	18.272	-2.812	17.412	1.00	28.25
	ATOM	382 383	И	MET	35 7	20.457	-2.812	17.100	1.00	25.31
	ATOM	384	CA	MET	357 357	20.457	-2.765		1.00	24.63
			CB	MET				17.369		
	ATOM ATOM	385 386	CG	MET	357	21.902	-0.789	17.766	1.00	23,61
		385	SD.	MET	357	22.011	0.736	17.699	1.00	24.66
	MOTA		CE	MET	357	23.732	1.290	17.859	1.00	27.30
	ATOM	388		MET	357	24.140	0.672	19.514	1.00	23.62
	ATOM ATOM	389 390	¢ o	MET	357 357	20.256	-1.011	15.898	1.00	24.83
	MOTA	390 391	И	ILE	357 358	19.619 20.757	-0.003	15.569	1.00	26.78
				ILE			-1.874 -1.721	15.020	1.00	26.25
	MOTA	392	CA	1112	358	20.553	-1.721	13.576	1.00	30.33

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	MOTA	393	CB	ILE	358	31.204	-2.988	12.789	1.00	33.86	
	ATOM	394	CG2	ILE	358	20.759	-2,860	11.334			
	MOTA	395	CG1	ILE	358	22.728	-2.799	12.874	1.00	36.89	
	MOTA	396	CD1	ILE	358	23.299	-1.469	12.451	1.00	39.10	
	MOTA	397	С	ILE	358	19.055	-1.721	13.310	1,00	32.20	
	ATOM	398	0	ILE	358	18.519	-0.817	12.662	1.00	32.02	
•	ATOM	399	N	ASN	359	18.379	-2.748	13.814	1.00	33.12	
	MOTA	400	CA:	ASN	359	16.945	-2.861	13.638	1.00	33.35	
	ATOM	401	CB	ASN	359	16.434	-4.101	14.363	1.00	37.59	
	MOTA	402	CG	ASN	359	16.739	-5.374	13.627	1.00	44.38	
	AŢOM	403	OD1	ASN	359	17.045	-5.329	12.437	1.00	47.35	
	ATOM	404	ND2	ASN	359	16.673	-6.508	14.320	1.00	42.48	
	ATOM	405	C	ASN	359	16.224	-1.634	14.149	1.00	32.74	
	ATOM	406	Õ	ASN	359	15.261	-1.163	13.530	1.00	31.39	
	ATOM	407	N	TRP	360	16.706	-1.104	15.264	1.00	27.92	
	ATOM	408	CA	TRP	360	16.102	0.087				
	ATOM	409	CB	TRP				15.842	1.00	29.47	
					360	16.703	0.347	17.228	1,00	27.66	
	ATOM ATOM	410 411	CG CD2	TRP	360 360	16.522	1.747	17.707	1.00	30.40	
				TRP	360	17.493	2.801	17.657	1.00	27.54	
	MOTA	412	CE2	TRP	360	16.888	3.954	18.204	1.00	29,42	
	ATOM	413	ÇE3	TRP	360	18.819	2.883	17.205	1.00	28.37	
	ATOM	414	CD1	TRP	360	15.399	2.284	18.264	1.00	27.75	
	ATOM	415	NE1	TRP	360	15.609	3.611	18.566	1.00	30.84	
	ATOM	416	CZ2	TRP	360	17.558	5.180	18.310	1.00	27.74	-
	ATOM	417	CZ3	TRP	360	19.488	4,106	17.309	1.00	24.49	
	ATOM	418	CH2	TRP	360	18.853	5.232	17.858	1.00	25.09	
	ATOM	419	С	TRP	360	16.312	1.296	14.926	1.00	27.90	
	ATOM	420	0	TRP	360	15.360	2.002	14.581	1.00	28.83	
	ATOM	421	N	ALA	361	17.559	1.520	14.523	1.00	28.25	
	ATOM	422	CA	ALA	361	17.894	2.637	13.645	1.00	29.20	
	ATOM	423	CB	ALA	361	19.346	2.539	13,220	1.00	28.89	
	ATOM	424	C	ALA	361	17.006	2.685	12.403	1.00	31.08	
	ATOM	425	0	ALA	361	16.531	3.746	12.011	1.00	31.30	
	ATOM	426	N	LYS	362	16.795	1.526	11.783	1.00	30.93	
	ATOM	427	CA	LYS	362	15.981	1.443	10.581	1.00	34.15	
	ATOM	428	CB	LYS	362	16.012	0.016	10.023	1.00	33.67	
	ATOM	429	CG	LYS	362	17.252	-0.281	9.198	1.00	39.40	
	ATOM	430	CD	LYS	362	17.547	-1.774	9.136	1.00	43.60	
	ATOM	431	CE	LYS	362	18.852	-2.046	8.389	1.00	47.06	
	ATOM	432	NZ	LYS	362	19.178	-3.507	8.288	1.00	50.34	
	ATOM	433	Ç	LYS	362	14.545	1.872	10.815	1.00	35.81	
	ATOM	434	0	LYS	362	13.821	2.168	9.859	1.00	37.95	
	ATOM	435	N	ARG	363	14.134	1.921	12.079	1,00	34.23	
	ATOM	436	CA	ARG	363	12.770	2.313	12.409	1.00	36.04	
	ATOM	437	CB	ARG	363	12.178	1.307	13.391	1.00	36.71	
	ATOM	438	CG	ARG	363	12.169	-0.110	12.827	1.00	40.36	
•	ATOM	439	CD	ARG	363	11.468	-1.086	13.746	1,00	42.17	
	ATOM	440	NE	ARG	363	10.161	-0.586	14.158	1.00	45.19	
	ATOM	441	CZ	ARG	363	9,314	-1.262	14.136	1.00	49.41	
	ATOM	442	NH1	ARG	363						
		442				9.642	-2.467	15.374	1.00	48.02	
	ATOM		NH2	ARG	363	8,143	-0.729	15.261	1.00	51.54	
	ATOM	444	C	ARG	363	12.654	3.743	12.943	1.00	37.40	
	MOTA	445	0	ARG	363	11.567	4.199	13.303	1.00	38.22	
	ATOM	446	N	VAL	364	13.785	4.442	13.002	1.00	35.66	
	ATOM	447	CA	VAL	364	13.804	5.836	13.431	1.00	34.06	
	MOTA	448	CB	VAL	364	15.231	6.271	13.827	1.00	33.87	
	ATOM	449	CG1	VAL	364	15.293	7.779	13.995		31.08	
	ATOM	450	CG2	VAL	364	15.641	5.571	15.113	1.00	31.30	

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ATOM	451	С	VAL	364	13.360	6.591	12.171	1.00	33.19	
MOTA	452	0	VAL	364	14.028	6.531	11.146	1.00	33.04	
Atom	453	N	PRO	365	12.225	7.310	12.234	1,00	34.69	
ATOM	454	CD	PRO	365	11,359	7.492	13.413	1.00	34.19	
atom	455	CA	PRO	365	11.724	8.050	11.069	1.00	35.96	•
ATOM	456	CB	PRO	365	10.608	8.918	11.645	1.00	36.59	
ATOM	457	CG	PRO	365	10,135	8.157	12.842	1.00	39.59	
ATOM	458	C	PRO	365	12.756	8.878	10.321	1.00	37.19	
ATOM	459	0	PRO	365	13.430	9.726	10.907	1.00	40.29	
ATOM ATOM	460 461	N CA	GLY GLY	366 3 <i>66</i>	12.878	8.624 9.371	9.023	1.00	34.78	
ATOM	462	CA	GLY	366 366	13.816 15.168	8.722	8.212 8.007	1.00	33.54 34.26	
ATOM	463	0	GLY	366	15.858	9.035	7.034	1,00	37.15	
ATOM	464	N	PHE	367	15.554	7.814	8.901	1.00	33,13	
ATOM	465	CA	PHE	367	16.860	7.164	8.787	1.00	32.04	
MOTA	466	CB	PHE	367	17.138	6.291	10.016	1.00	30.22	
ATOM	467	CG	PHE	367	18.544	5.773	10.080	1.00	30.60	
ATOM	468	CD1	PHE	367	18.827	4.446	9.751	1.00	31.94	
ATOM	469	CD2	PHE	367	19.589	6.601	10.485	1.00	29.20	
ATOM	470	CE1	PHE	367	20.133	3.950	9.828	1,00	28.30	
ATOM	471	CE2	PHE	367	20.896	6.122	10.568	1.00	28.12	
MOTA	472	CZ	PHE	367	21.171	4.791	10.240	1.00	25.41	
ATOM	473	C	PHE	367	17.033	6.333	7.524	1.00	31.46	
ATOM ATOM	474 475	O N	PHE	367 368	18.073 16.027	6.405 5.541	6.883 7.165	1.00	32.30	-
ATOM	476	CA	VAL VAL	368	16.123	4.718	5.959	1.00	35.20 38.98	
ATOM	477	CB	VAL	368	15.076	3.584	5.945	1.00	40.61	
ATOM	478	CG1	VAL	368	15.543	2.447	6.843	1.00	41.48	
ATOM	479	CG2	VAL	368	13.717	4.113	6.390	1.00	41.60	
MOTA	480	C	VAL	368	15.965	5.523	4.673	1.00	40.06	
ATOM	481	0	VAL	368	16.156	4.992	3.579	1.00	41.66	
MOTA	482	N	ASP	369	15.608	6.798	4,798	1.00	38.65	
ATOM	483	CA	ASP	369	15.465	7.646	3,621	1.00	37.15	
ATOM	484	CB	ASP	369	14.700	8.929	3.954		39.89	
ATOM	485	CG	ASP	369	13.254	8.671	4.302	1.00	45.59	
ATOM ATOM	486 487	OD1 OD2	asp Asp	369 369	12.686 12.681	7.672 9.472	3.806 5.074	1.00	46.34 49.13	
ATOM	488	C	ASP	369	16.855	8.010	3.136		34.91	
ATOM	489	0	ASP	369	17.038	8.431	1.995	1.00	34.25	
ATOM	490	N	LEU	370	17.838	7.841	4.016	1.00	31.76	
ATOM	491	CA	LEU	370	19.229	8.153	3.705	1.00	28.08	
ATOM	492	CB	LEU	370	20.020	8.339	5.003	1.00	28.81	
ATOM	493	CG	LEU	370	19.523	9.395	6.000	1.00	28.74	
ATOM	494	CD1	LEU	370	20.315	9.275	7.299	1.00	30.81	
ATOM	495	CD2	LEU	370	19.693	10.792	5.404	1.00	29.77	
ATOM	496	C	LEU	370	19.884	7.043	2,893	1.00	31.25	
ATOM	497	0	LEU	370	19.341	5,943	2.784	1.00	31.78	
ATOM	498	N Ca	THR	371	21.052	7.333	2.331	1.00	28.86	
ATOM ATOM	499 500	CA CB	THR THR	371 371	21.793 22.979	6.336 6.944	1.569 0.818	1.00	32.90 33.44	
ATOM	501	OG1	THR	371 371	22.979	7.523	1.766	1.00	33.44 34.59	
ATOM	502	CG2	THR	371	22.514	8.002	-0.178	1.00	32,63	
ATOM	503	C	THR	371	22.373	5.315	2.539	1.00	35.31	•
ATOM	504	Õ	THR	371	22.536	5.591	3.733	1.00	31.27	
ATOM	505	N	LEU	372	22.702	4.141	2.015	1.00	34.34	
ATOM	506	CA	LEU	372	23.273	3.073	2.822	1.00	35.46	
MOTA	507	CB	LEU	372	23.518	1.841	1.944	1.00	37.73	
MOTA	508	CG	LEU	372	24.362	0.704	2.515	1.00	42.43	

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•	ATOM	509	CD1	LEU	372	23.690	0.145	3.757	1.00	45.60
	ATOM	510	CDS	LEU	372	24.534	-0.383	1.455	1.00	44.29
•	ATOM	511	C	LEU	372	24.587	3.548	3.444	1.00	36.95
	MOTA	512	ō	LEU	372	24,813	3.374	4.643	1,00	35.57
	MOTA	513	Й	HIS	373	25.442	4.159	2.627	1.00	35.68
•	ATOM	514	CA	HIS	373	26,729	4.656	3.099	1.00	36.60
	ATOM	515	CB	HIS	373	27.506	5.282	1.935	1.00	44.01
			CG		373				1.00	
	ATOM	516		HIS HIS		28.538	6.280	2.360		50.69
	ATOM	517	CD2		373	29.857	6.138	2.836	1.00	54.69
	ATOM	518	ND1	HIS	373	28.246	7.613	2.561	1.00	53.77
	ATOM	519	CE1	HIS	373	29.339	8.248	2.945	1.00	57.09
	ATOM	520	NE2	HIS	373	30.331	7.376	2.999	1.00	57.23
	MOTA	521	C	HIS	373	26.575	5.669	4.244	1.00	36.22
	MOTA	522	0	HIS	373	27.350	5.650	5.201	1.00	33.05
	ATOM	523	Ņ	ASP	374	25.580	6.549	4.148	1.00	32.03
•	MOTA	524	CA	ASP	374	25.342	7.541	5.196	1.00	30.76
	ATOM	525	CB	ASP	374	24.354	8.603	4.713	1.00	30.12
	ATOM	526	CG	ASP	374	25.018	9.672	3.860	1.00	35.83
	MOTA	527	OD1	ASP	374	26.264	9.744	3.842	1.00	34.39
	ATOM	528	OD2	ASP	374	24.291	10.440	3.199	1,00	35.39
	MOTA	529	C	ASP	374	24.805	6.876	6.472	1.00	30.33
	ATOM	530	0	ASP	374	25.152	7.275	7.587	1.00	27.04
	ATOM	531	N	GLN	375	23.944	5.877	6.309	1.00	25.71
	ATOM	532	CA	GLN	375	23.403	5.157	7.454	1.00	26.68
	ATOM	533	CB	GLN	375	22.424	4.077	6.993	1.00	29.70
	ATOM	534	CG	GLN	375	21.101	4,616	6.484	1.00	29.16
	ATOM	535	CD	GLN	375	20.219	3.514	5.940	1.00	35.87
	ATOM	536 537	OE1	GLN	375	20.155	2.426	6.510	1.00	30.97
	ATOM	537	NE2	GLN	375	19.541	3.785	4.827 8.214	1.00	34.51 25.51
	ATOM	538	C O	GLN GLN	375 375	24.556 24.585	4.502 4.513	9.442	1.00	28.14
	ATOM ATOM	539 540	N		375 376	25.504	3.938	7.475	1.00	26.62
	ATOM	540 541	CA	VAL VAL	376	26.659	3.281	8.071	1.00	29.24
	ATOM	542	CB	VAL	376	27.531	2.597	7.003	1.00	29,66
	ATOM	543	CG1	VAL	376	28.812	2.071	7.635	1.00	28.29
	ATOM	544	CG2	VAL	376	26.745	1.469	6.341	1.00	29.90
	ATOM	545	C	VAL	376	27.526	4.285	8.821	1.00	30.87
	ATOM	546	0	VAL	376	27.953	4.029	9.948	1.00	30.09
	ATOM	547	N	HIS	377	27.785	5.428	8.191	1.00	28.05
	ATOM	548	ÇA	HIS	377	28.602	6.457	8.814	1.00	28.68
	ATOM	549	CB	HIS	377	28.792	7.639	7.864	1.00	30.26
	ATOM	550	CG	HIS	377	29.508	8.791	8.488	1.00	33.89
	ATOM	551	CD2	HIS	377	29.073	10.017	8.863	1.00	34.99
	ATOM	552	ND1	HIS	377		8.740	8.823	1.00	37.01
	ATOM	553	CE1	HIS	377	31.201	9.884	9.377	1.00	34.79
	ATOM	554	NE2	HIS	377	30.144	10.677	9.413	1.00	34.95
	ATOM	555	C	HIS	377	27.983	6.954	10.114	1.00	25.13
	ATOM	556	ō	HIS	377	28.677	7.102	11.115	1.00	25.93
	ATOM	557	N	LEU	378	26.678	7.206	10.107	1.00	
	ATOM	558	CA	LEU	378	26.015	7.695	11.315	1.00	
	ATOM	559	CB	LEU	378	24.542	8.001	11.027	1.00	
	ATOM	560	CG	LEU	378	24.291	9.180	10.073	1.00	
	ATOM	561	CD1	LEU	378	22.778	9.353	9.869	1.00	27.66
	ATOM	562	CD2	LEU	378	24.911	10.458	10.642	1.00	30.08
	ATOM	563	C	LEU	378		6.695	12.459	1.00	28.55
	ATOM	564	Õ	LEU	378	26.379	7.075	13.605	1.00	24.76
	ATOM	565	N	LEU	379	25.919	5.414	12,153	1.00	24.29
	ATOM	566	CA	LEU	379	26.000	4.388	13.182	1.00	27.03

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	ATOM	567	СВ	LEU	379	25.401	3.073	12.667	1.00	28.53
	MOTA	568	ce	LEU	379	23.875	3.023	12.845	1.00	30.29
•	ATOM	569	CD1	LEU	379	23.248	1.943	11.963	1.00	33.04
	ATOM	570	CD2	LEU	379	23.563	2.759	14.312	1.00	29.45
	ATOM	571	C	LEU	379	27.430	4.176	13.670	1.00	27.18
	ATOM	572	0	LEU	379	27.653	3,979	14.866	1.00	25,95
	ATOM	573	N	GLU -	380	28.402	4,236	12.762	1,00	25.86
	atom	574	CA	GLU	380	29.786	4.054	13.173	1.00	27.58
	MOTA	575	CB	GLU	380	30.730	4.036	11.968	1.00	30.36
	ATOM	576	CG	GLU	380	32.172	3.785	12.380	1,00	37.98
	atom	577	CD	GLU	380	33.080	3.471	11.210	1.00	45.23
	ATOM	578	OE1	GLU	380	32.869	4.048	10.120	1.00	42.99
	ATOM	579	OE2	GLU	380	34.004	2.646	11.386	1.00	45.79
	ATOM	580	C	GLU	380	30.218	5.159	14.133	1.00	27.50
	ATOM	581	0	GLU	380	31.056	4.937	15.010	1.00	26.67
	ATOM	582	N	ACYS	381	29.637	6.339	13.965	0.75	24.89
	ATOM	583	N	BCYS	381	29.645	6.352	13.980	0.25	25,79
	atom atom	584 585	CA CA	ACYS BCYS	381 381	29.969	7.466	14.826	0.75	24.12
	ATOM	586	CB	ACYS	381	29.993 29.621	7.481 8.781	14.847 14.122	0,25 0.75	24.86
	atom	587	CB	BCYS	381	29.766	8.814	14:115	0.75	25.96 25.62
	MOTA	588	SG	ACYS	381	30.698	9.192	12.732	0.75	31.63
	ATOM	589	SG	BCYS	381	30.227	10.312	15.059	0.25	25.40
	ATOM	590	c	ACYS	381	29.237	7.422	16.162	0.75	22.07
	ATOM	591	C	BCYS	381	29.211	7.498	16.159	0.25	23.97
	ATOM	592	0	ACYS	381	29.812	7.730	17.206	0.75	21.97
1	ATOM	593	0	BCYS	381	29.724	7.940	17.187	0,25	23.99
	atom	594	N	ALA	382	27.974	7.012	16.128	1.00	23.41
	ATOM	595	CA	ALA	382	27.140	7.015	17.318	1.00	22.83
	MOTA	596	CB	ALA	382	25.785	7.587	16,948	1,00	25.50
	MOTA	597	C	ALA	382	26.913	5.755	18,131	1.00	25.39
	MOTA	598	0	ALA	382	26.374	5.837	19.234	1.00	23.09
	atom Atom	599 600	n Ca	TRP	383	27.311	4.602	17.615	1.00	25.98
	ATOM	601	CB	TRP TRP	383 383	27,026 27.669	3.354 2.172	18,318		23.80 22.52
	ATOM	602	CG .	TRP	383	29.130	2.172	17.580 17.762	1.00	24.42
	ATOM	603	CD2	TRP	383	29.797	1.347	18.803	1.00	27.31
	ATOM	604	CE2	TRP	383	31.182	1.484	18.579	1.00	28,24
	ATOM	605	CE3	TRP	383	29.360	0.609	19.912	1.00	27.37
	MOTA	606	CD1	TRP	383	30.102	2.578	16.965	1.00	24.58
7	MOTA	607	NE1	TRP	383	31.342	2.239	17.446	1.00	27.35
7	ATOM	608	CZ2	TRP	383	32.133	0.909	19.420	1.00	28.76
	MOTA	609	CZ3	TRP	383	30.305	0.039	20.745	1.00	28.09
	MOTA	610	CH2	TRP	383	31.674	0.191	20.496	1.00	29.77
	MOTA	611	C	TRP	383	27.356	3.309	19.802	1.00	23.54
	MOTA	612	0	TRP	383	26.526	2.866	20.584	1.00	22.90
	MOTA	613	N	LEU	384	28.542	3.765	20.211	1.00	20.37
	MOTA	614	CA	LEU	384	28.864	3.713	21.640	1.00	22.41
	MOTA	615	CB	ĻEU	384	30,369	3.890	21.883	1.00	24.98
	MOTA	616	CG	LEU	384	30.824	3.645	23.336	1.00	27.33
	ATOM	617	CD1	LEU	384	30.273	2.305	23.853	1.00	29.71
	MOTA	618	CD2	LEU	384	32.336	3,648	23.398	1.00	26.07
	atom Atom	619	C	LEU	384	28.075	4.732	22.453	1.00	19.44
	ATOM ATOM	620 621		LEU	384	27.706	4.458	23.595	1.00	23.24
		621 622	n Ca	GLU GLU	385 385	27.807	5.909	21.885	1.00	20.80
		623	CB	GLU	385 385	27.011 26.861	6.895 8.177	22.612 21.797	1.00	21.32
		624	CG	GLU	385	28.115	9.020	21.797	1.00	21.91 21.61
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ATOM	625	CD	GLU	385	27.882	10.256	20.860	1.00	29.53	
atom	626	oe1	GLU	385	27.374	11.256	21.401	1.00	30.54	
MOTA	627	OE2	GLU	385	28.188	10.219	19.658	1.00	29.97	•
MOTA	628	C	GLU	385	25.616	6.292	22.836	1.00	22.26	
MOTA	629	0	GLU	385	25.022	6.438	23.902	1.00	22.26	
ATOM	630	Й	ILE	386	25.101	5.617	21.812	1.00	22.03	
MOTA	631	CA	ILE	386	23.779	4.995	21.896	1.00	22,74	
ATOM	632	CB	ILE	386	23.328	4.455	20.498	1,00	22.88	
MOTA	633	CG2	ILE	386	22.009	3.647	20.618	1.00	23.85	
ATOM	634 635	CG1 CD1	ILE	386	23.085	5.651	19.561	1.00	25.05	
ATOM	635 636	G	ile	386 386	22.994 23.766	5.297 3.897	18.078 22.961	1.00	26.42 22.50	
atom Atom	637	0	ILE	386	22.823	3.818	23.746	1.00	24.75	
ATOM	63B	N	LEU	387	24.810	3.071	23.020	1.00	22.25	•
ATOM	639	CA	LEU	387	24.868	2.030	24.051	1.00	22.95	
MOTA	640	CB	LEU	387	26.096	1.132	23.864	1.00	24.61	
ATOM	641	CG	LEU	387	26.070	0.194	22.654	1,00	23,21	
ATOM	642	CD1	LEU	387	27.297	-0.709	22.705	1.00	25.36	~
ATOM	643	CD2	LEU	387	24.791	-0.631		1.00	26.29	
ATOM	644	C	LEU	387	24.944	2.660	25.438	1.00	26.22	
ATOM	645	0	LEU	387	24.287	2.204	26.386	1.00	23.55	
ATOM	646	N	MET	388	25.751	3.713	25.554	1,00.		
MOTA	647	CA	MET	388	25.924	4.385	26.835	1.00	24.26	
MOTA	648	CB	MET	388	27.088	5.378	26.761	1.00	23.87	-
ATOM	649	CG	MET	388	28.440	4.722	26.743	1.00	24.08	
ATOM	650	SD	MET	388	29.726	5.992	26.736	1.00	27.70	
MOTA	651	CE	MET	388	31.139	5.041	27.078	1.00	21.74	
ATOM ATOM	652 653	0	MET MET	388 388	24.660 24.341	5.094 5.026	27.321 28.505	1.00	23.33 . 25.58	
ATOM	654	И	ILE	389	23,935	5.775	26.436	1.00	24.62	
ATOM	655	CA	ILE	389	22.729	6.440	26.905	1,00	24.03	
AŢOM	656	CB	ILE	389	22.132	7.439	25.852	1.00	27.01	
ATOM	657	CG2	ILE	389	21.413	6,705	24.706	1.00	23,98	
ATOM	658	CG1	ILE	389	21.185	8,402	26.584	1.00	25.49	
ATOM	659	CD1	ILE	389	20,431	9.383	25.683	1,00	25.45	
ATOM	660	C	ILE	389	21.694	5.401	27.349	1.00	26.54	
ATOM	661	0	ILE	389	20.938	5.631	28.294	1.00	22,58	
ATOM	662	N	GLY	390	21.679	4.247	26.687	1.00	27.14	
MOTA	663	CA	GLY .		20.753	3.201	27.090	1.00	28.42	
ATOM	664	C	GLY	390	21,133	2.719	28.482	1,00	29.67	
ATOM .	665	O N	GLY	390	20.275	2.521	29.348	1.00	29.21	
ATOM	666	N	LEU	391	22.433	2.547	28.699	1,00	26.06	
ATOM ATOM	667 668	CA CB	LEU LEU	391 391	22.955	2.091 1.937	29.983	1.00	29.23	
ATOM	669	CG	LEU	391 391	24.476 25.206	1.656	29.899 31.210	1.00 1.00	28.37 30.81	
ATOM	670	CD1	LEU	391	25.206	0.332	31.793	1.00	25.73	
ATOM	671	CD2	LEU	391	26.709	1.619	30.958	1.00	25.75 25.25	
ATOM	672	C	LEU	391	22.603	3.070	31.104	1,00	30.84	
ATOM	673	Õ	LEU	391	22.156	2.669	32.186	1.00	29.19	
ATOM	674	N	VAL	392	22.817	4.355	30.850	1,00	28.91	
ATOM	675	CA	VAL	392	22.506	5.369	31.851	1.00	28.86	
ATOM	676	CB	VAL	392	22.923	6.770	31.353	1.00	30.08	
ATOM	677	CG1	VAL	392	22.329	7.854	32.237	1.00	32.32	-
MOTA	678	CG2	VAL	392	24.442	6.870	31.372	1.00	28.52	
MOTA	679	C	VAL	392	21.013	5.327	32.165	1.00	28,42	
MOTA	680	0	VAL	392	20.621	5.345	33.327	1.00	30.38	
ATOM	681	N	TRP	393	20.191	5.241	31.125	1.00	28.23	
MOTA	682	CA	TRP	393	18.732	5.186	31.280	1,00	29.70	

MOTA	683	CB	TRP	393	18.066	5.046	29.906	1.00	30.09
ATOM	684	CG	TRP	393	16.605	4.670	29.953	1,00	33.50
MOTA	685	CD2	TRP	393	15.516	5.499	30.369	1.00	31.76
ATOM	686	CE2	TRP	393	14.336	4.725	30.264	1.00	38.11
MOTA	687	CE3	TRP	393	15.419	6.821	30.824	1.00	32.56
ATOM	688	CD1	TRP	393	16.057	3.459	29.618	1,00	34.31
MOTA	689	NE1	TRP	393	14.696	3.486	29.801	1,00	34.36
MOTA	690	CZ2	TRP	393	13.073	5.233	30.597	1.00	37.93
ATOM	691	CZ3	TRP	393	14.162	7.326	31.155	1.00	35.24
ATOM	692	CH2	TRP	393	13.007	6.531	31.039	1.00	37.77
MOTA	693	C	TRP	393	18.256	4.051	32.191	1.00	32.07
MOTA	694	0	TRP	393	17.460	4.275	33.109	1,00	32.12
MOTA	695	N	ARG	394	18.738	2,837	31.957	1.00	31.90
ATOM	696	CA	ARG	394	18.288	1.729	32.787	1.00	36.63
MOTA	697	CB	ARG	394	18.492	0.389	32.065	1.00	36.41
ATOM	698	CG	ARG	394	19.914	0.009	31.764	1.00	36.50
ATOM	699	CD	ARG	394	19.929	-1.132	30.748	1,00	36.34
ATOM	700	NE	ARG	394	21.282	-1.561	30.417	1.00	33.97
ATOM	701	CZ	ARG	394	21.864	-1.350	29.239	1.00	31.61
ATOM	702	NHl	ARG	394	21.208	-0.715	28.281	1.00	32.42
ATOM	703	NH2	ARG	394	23.098	-1.784	29.022	1.00	29.81
MOTA	704	C	ARG	394	18.911	1.697	34.180	1.00	36.69
ATOM	705	0	ARG	394	18.445	0.966	35.048	1.00	37.07
ATOM	706	N	SER	395	19,954	2.492	34,395	1,00	33.63
ATOM	707	CA	SER	395	20.603	2.564	35.701	1.00	35.69
ATOM	708	CB	SER	395	22.112	2.784	35.540	1.00	32.94
ATOM	709	og	SER	395	22.696	1.811	34.688	1.00	32.37
ATOM	710	С О	SER	395 395	20.010	3.713 3.916	36.531	1.00	36.44
ATOM	711	Ŋ	SER	395 396	20.389		37.687	1.00 1.00	38.68 36.46
ATOM ATOM	712 713	N CA	MET MET	396 396	19.076 18.431	4.449 5.588	35.937 36.589	1.00	43.08
ATOM	713	CB	MET	396	17.275	6.104	35.725	1.00	43.87
ATOM	715	CG	MET	396	17.481	7.507	35.176	1.00	46.18
ATOM	716	SD	MET	396	15.962	8.278	34.581	1.00	49.58
ATOM	717	CE	MET	396	14.988	8.298	36.065	1.00	53.58
ATOM	718	Ç	MET	396	17.906	5.303	37.992	1.00	46.18
ATOM	719	Ö	MET	396	18.125	6.089	38.913	1.00	46.34
ATOM	720	N	GLU	397	17.215	4.180	38.152	1.00	49.39
ATOM	721	CA	GLU	397	16,645		39,444		52.12
ATOM	722	CB	GLU	397	15.296				55.34
ATOM	723	CG	GLU	397	14.166	4.073	38.873	1.00	58.86
ATOM	724	CD	GLU	397	13.195	3.448	37.891	1.00	63.28
ATOM	725	OE1	GLŲ	397	13.660	2.925	36.854	1.00	64.68
MOTA	726	OE2	GLU	397	11.972	3,475	38.155	1.00	65.39
ATOM	727	C	GLU	397	17.548	2,933	40.283	1.00	52.75
MOTA	728	Q	GLU	397	17.071	2.187	41.139	1.00	53.96
ATOM	729	N	HIS	398	18,851	3,014	40.040	1,00	50.25
ATOM	730	CA	HIS	398	19.813	2.220	40.792	1.00	49.34
ATOM	731	CB	HIS	398	20.271	1.018	39.963	1.00	52.04
MOTA	732	CĠ	HIS	398	19.187	0.017	39.721	1.00	53.95
ATOM	733	CD2	HIS	398	18.750	-1.022	40.472	1.00	53.92
ATOM	734	ND1	HIS	398	18.374	0.054	38.608	1.00	55.91
MOTA	735	CE1	HIS	398	17.482	-0.917	38.685	1.00	55.53
ATOM	736	ŅE2	HIS	398	17.688	-1.585	39.806	1.00	55.81
ATOM	737	C	HIS	398	20.999	3.084	41.196	1.00	47.44
ATOM	738	0	HIS	398	22.121	2.887	40.730	1.00	44.91
ATOM	739	N	PRO	399	20.755	4.049	42.096	1.00	46.45
ATOM	740	CD	PRO	399	19.443	4.300	42.721	1.00	47.27

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ATOM	741	CA	PRO	399	21.785	4.968	42.586	1.00	45.35
ATOM	742	CB	Pro	399	21.127	5.631	43.793	1.00	47.40
MOTA	743	CG	PRO	399	19.660	5.561	43.504	1.00	47.72
ATOM	744	С	PRO	399	23.086	4.270	42.958	1.00	44.70
ATOM	745	0	PRO	399	23.078	3.233	43.627	1,00	46.46
ATOM	746	N	GLY	400	24.202	4.840	42.509	1.00	41.57
ATOM	747	CA	GLY	400	25.506	4.281	42.813	1.00	39.84
ATOM	748	C.	GLY	400	25.907	3.047	42,022	1.00	37.85
MOTA	749	0	GLY	400	27.027	2.560	42,176	1.00	40.48
ATOM			LYS	401					36.39
	750	N			25.012	2.537	41.180		
ATOM	751	CA	LYS	401	25.315	1.344	40.390	1.00	34.47
ATOM	752	CB	LYS	401	24.562	0.130	40.947	1.00	36.12
ATOM	753	CG	LYS	401	24.633	-0.007	42.466	1.00	39.30
ATOM	754	CD	LYS	401	24.288	-1.429	42.903	1.00	44.38
ATOM	755	CE	LYS	401	24.459	-1.605	44.408	1.00	46.68
ATOM	756	NZ	LYS	401	24.968	-2.969	44.747	1.00	53.37
ATOM	757	C	LYS	401	24.969	1.485	38.911	1.00	32.34
ATOM	758	0	LYS	401	24.141	2.308	38,531	1.00	31.16
ATOM	759	N	LEU	402	25.612	0.663	38.086	1.00	28.52
ATOM	760	CA	LEU	402	25.358	0.658	36.648	1.00	29.06
ATOM	761	CB	LEU	402	26,661	0.847	35.867	1.00	29.26
ATOM	762	CG	LEU	402	27.278	2.242	36,029	1.00	24.67
ATOM	763	CD1	LEU	402	28.623	2.310	35.310	1.00	27.47
ATOM	764	CD2	LEU	402	26.312	3.277	35.482	1.00	24.93
ATOM	765	C	LEU	402	24.755	-0.686	36.292	1.00	30.43
ATOM	766	Ö	LEU	402	25.367	-1.727	36.535	1.00	31.36
ATOM	767	N	LEU	403	23.552	-0.658	35.735	1.00	31.07
ATOM	768	CA	LEU	403	22.873	-1.880	35.335	1.00	32.96
ATOM	769	CB .	LEU	403	21.361	-1.693	35,434	1.00	33.86
	770	CG	LEU	403	20.551	-2.991	35,415	1.00	39.29
ATOM								,	
MOTA	771	CD1	LEU	403	20.584	-3.637	36.806	1.00	43.62
ATOM	772	CD2	LEU	403	19.128	-2.689	34.998	1.00	41.32
ATOM	773	C	LEU	403	23.255	-2.218	33.899	1.00	30.06
ATOM	774	0	LEU	403	22.543	-1.870	32.956	1.00	31.63
ATOM	775	N .	PHE	404	24.383	-2.893	33.733	1.00	29.19
ATOM	776	CA	PHE	404	24.834	-3.256	32.403	1.00	28.93
ATOM	777	CB	PHE	404	26.201	-3.929	32.493	1.00	30.05
ATOM	778	CG	PHE	404	27.305	-2.998	32.926	1.00	30.78
ATOM	779	CD1	PHE	404	27.794	-3.033	34.228	1.00	32.91
ATOM	780	CD2	PHE	404	27.848	-2.078	32.030	1.00	32.75
ATOM	781	CE1	PHE	404	28.816	-2.160	34.638	1.00	34.73
ATOM	782	CE2	PHE	404	28.864	-1.205	32.423	1.00	30.68
ATOM	783	$\mathbb{C}\mathbb{Z}$	PHE	404	29.350	-1.242	33.727	1.00	31.43
ATOM	784	C	PHE	404	23.809	-4.181	31.756	1:00	30.80
ATOM	785	0	PHE	404	23.625	-4.175	30.538	1,00	28.09
ATOM	786	N	ALA	405	23.138	-4.967	32.594	1.00	30.25
ATOM	787	CA	ALA	405	22.104	-5.910	32.163	1.00	29.78
ATOM	788	CB	ALA	405	22.745	-7.172	31.598	1.00	29.97
ATOM	789	C	ALA	405	21.309	-6.237	33.429	1.00	31.95
ATOM	790	Ö	ALA	405		-5.995	34.535	1.00	32.36
ATOM	791	N	PRO	406	20.088	-6.779	33.288	1.00	34.40
ATOM	792	CD	PRO	406	19.356	-7.102	32.053	1.00	35.81
ATOM		CA				-7.102			
	793		PRO	406	19.303		34.490	1.00	36.41
ATOM	794	CB	PRO	406	17.985	-7.654	33.935	1.00	35.38
ATOM	795	CG	PRO	406	17.922	-7.153	32.519	1,00	36.49
ATOM	796	C	PRO	406	19.997	-8.084	35.433	1.00	37.32
ATOM	797	0	PRO	406	19.698	-8.112	36.626	1.00	38.34
ATOM	798	N	ASN	407	20.924	-8.877	34.902	1.00	36.69
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	ATOM	799	CA	ASN	407	21.652	-9.847	35.712	1,00	38.85
	ATOM	800	CB	asn	407	21.582	-11.243	35.083	1.00	39.69
	ATOM	801	CG	asn	407	22.232	-11.306	33.711	1.00	44.10
	ATOM	802	OD1	asn	407	22.345	-10.296	33,009	1.00	37.78
	ATOM	803	ND2	asn	407	22.660	-12.503	33.319	1.00	45.74
	ATOM	804	C	asn	407	23.100	-9.435	35.874	1,00	38.12
	ATOM	805	0	ASN	407	23.965	-10.256	36.178	1.00	39.81
	ATOM	806	N	LEU	408	23.364	-8.149	35.671	1.00	37.80
	ATOM	807	CA	LEU	408	24.713	-7.631	35.799	1.00	36.89
	ATOM	808	CB	LEU	408	25.449	-7.720	34.459	1.00	36.09
	ATOM	809	CG	LEU	408	26.972	-7.609	34.550	1.00	35,08
	ATOM	810	CD1	LEU	408	27.525	-8.775	35.354	1.00	39.15
	ATOM	811	CD2	LEU	408	27.578	-7.587	33.158	1.00	36.85
	MOTA	812	C	LEU	408	24.670	-6.187	36.286	1.00	40.55
	ATOM	813	0	LEU	408	24,646	-5.248	35.491	1.00	. 38.29
	AŢOM	814	N	LEU	409	24.644	-6.034	37.607	1.00	39.50
	MOTA	815	CA	LEU	409	24.606	-4.733	38.257	1,00	41.00
	MOTA	816	CB	LEU	409	23.392	-4.658	39.184	1.00	43.69
	ATOM	817	CG	LEU	409	23.164	-3.382	39.993	1.00	47.35
	ATOM	818	CD1	LEU	409	22.848	-2.233	39.058	1.00	47.09
	ATOM	819	CD2	LEU	409	22,014	-3.603	40.976	1.00	49.38
•	ATOM	820	С	LEU	409	25.894	-4.566	39.060	1.00	41.80
	ATOM	821	0	LEU	409	26.178	-5.358	39.960	1.00	41.00
	ATOM	822	N	LEU	410	26.676	-3,544	38.727	1.00	39.23
	ATOM	823	CA	LEU	410	27.931	-3.296		1,00	40.45
	ATOM	824	CB	LEU	410	29.106	-3.354	38.442	1.00	41.59
	ATOM	825	CG	LEU	410	29.457	-4.660	37.716	1.00	44.87
	ATOM	826	CD1	LEU	410	30.972	-4.728	37.554	1.00	45.41
	ATOM	827	CD2	LEU	410	28.949	-5.872	38.484	1.00	47.02
	ATOM	828	C	LEU	410	27.946	-1.944	40.132	1.00	40.67
	MOTA	829	0	LEU	410	27.361	-0.970	39.652	1,00	40.22
	ATOM	830	N	ASP	411	28.610	-1.890	41.281	1.00	41.57
	ATOM	831	CA	ASP	411	28.717	-0.640	42.025	1.00	42.69 44.44
	ATOM	832	CB	ASP	411	28.490 29.655	-0.874 -1.578	43.528	1.00	46.70
	ATOM	833 834	CG OD1	ASP	411 411	29.633	-1.849	44.210 45.426	1.00	51.44
	mota Mota	835	OD1	ASP ASP	411	30.680	-1.861	43.553	1,00	48.79
•	ATOM	836	C C	ASP	411	30.088	-0.016	41.779	1,00	43.70
	ATOM	837	. 0	ASP	411	30.933	-0.610	41.107	1.00	38.48
	ATOM	838	N	ARG	412	30.295	1.181	42.321	1,00	46.78
	ATOM	839	CA	ARG	412	31.554	1.905	42.171	1,00	49.97
	ATOM	840	CB	ARG	412	31.601	3.090	43.138	1.00	51.28
•	ATOM	841	CĞ	ARG	412	30.971	4.364	42.614	1.00	54.77
	ATOM	842	CD	ARG	412	31.644	5.580	43.219	1.00	54.61
	ATOM	843	NE ·	ARG	412	33.071	5.615	42.912	1.00	56.53
	MOTA	844	CZ	ARG	412	33.827	6.708	42.985	1.00	61.90
	ATOM	845	NH1	ARG	412	33.291	7.866	43.356	1.00	63.48
	MOTA	846	NH2	ARG	412	35.120	6.645	42.682	1.00	61.21
	ATOM	847	С	ARG	412	32.771	1,026	42.429	1.00	50.29
	ATOM	848	ō	ARG	412	33.628	0.866	41.561	1.00	51.02
	ATOM	849	N	ASN	413	32.844	0.469	43.633	1.00	51.94
	ATOM	850	CA	ASN	413	33.969	-0.375	44.021	1,00	53.15
	ATOM	851	СВ	ASN	413	33.719	-0.980	45.403	1.00	55.88
	ATOM	852	CG	ASN	413	33.654	0.073	46.496	1.00	57.99
	ATOM	853	OD1	ASN	413	33.697	1.276	46.223	1.00	58.27
	ATOM	854	ND2	ASN	413	33.551	-0.375	47,742	1.00	57.90
	ATOM	855	С	ASN	413	34.235	-1.480	43.013	1.00	53.95
	ATOM	856	0	ASN	413	35.386	-1.743	42.659	1.00	53.67

ATOM	857	N	GLN	414	33.173	-2.129	42.547	1.00	55.33
MOTA	858	CA	GLN	414	33.326	-3.198	41.573	1.00	55.42
ATOM	859	CB	GLN	414	31.991	-3.904	41.343	1.00	55.44
ATOM	860	CG	GLN	414	31.645	-4.933	42.391	1.00	56.07
ATOM	861	CD	GLN	414	30.203	-5.376	42.336	1.00	57.40
ATOM	862	OE1	GLN	414	29.296	-4.536	42.402	1.00	60.22
ATOM	863	NE2	GLN	414	29.973	-6.664	42.199	1.00	57.27
ATOM	864	C	GLN	414	33.850	-2.630	40.259	1.00	55.51
ATOM	865	Õ	GLN	414	34.654	-3.265	39.578	1.00	56.16
ATOM	866		GLY	415	33.398	-1.430	39.910	1.00	57.07
	867							1.00	58.51
ATOM		CA C	GLY	415	33.849	-0.806	38.680		
ATOM	868	0	GLY	415	35.350	-0.582	38.689	1.00	61.10
ATOM	869		GLY	415	36.023	-0.748	37.671	1.00	59.47
ATOM	870	N	LYS	416	35.877	-0.211	39.851	1.00	62.77
ATOM	871	CA	LYS	416	37.305	0.041	40.011	1.00	65.49
ATOM	872	CB	LYS	416	37.634	0.262	41.491	1.00	66.04
ATOM	873	CG	LYS	416	38.121	1.663	41.823	1.00	68.71
ATOM	874	CD	LYS	416	37.078	2.439	42.613	1.00	70.98
ATOM	875	CE	LYS	416	37.404	2.448	44.100	1.00	71.84
ATOM	876	NZ	LYS	416	36.225	2.079	44.933	1.00	71.95
MOTA	877	C	LYS	416	38.159	-1.105	39.472	1.00	66.41
ATOM	878	0	LYS	416	39.361	-0.946	39.269	1.00	67.15
MOTA	879	N	CYS	417	37.538	-2.257	39.238	1.00	67.33
ATOM	880	CA	CYS	417	38.270	-3.414	38.741	1.00	68.16
ATOM	881	CB	CYS	417	37.951	-4.642	39.602	1.00	70.88
ATOM	882	SG	CYS	417	38.592	-4.549	41.301	1.00	76.09
ATOM	883	C	CYS	417	38.015	-3.736	37.270	1.00	67.54
ATOM	884	0	CYS	417	38.632	-4,653	36.720	1.00	68.48
ATOM	885	N	VAL	418	37.111	-2,994	36.631	1.00	64.67
ATOM	886	CA	VAL	418	36.817	-3.226	35.218	1.00	59.97
ATOM	887	CB	VAL	418	35.326	-2.917	34.879	1.00	59.60
ATOM	888	CG1	VAL	418	34.971	-1.503	35.284	1.00	59.13
ATOM ATOM	889	CG2	VAL	418	35.072	-3.121	33,391	1.00	54.85
	890	C .	VAL	418	37.739	-2.362	34.355	1.00	58.37
ATOM	891	O N	VAL	418	37.799	-1.140	34.512	1.00	55.44 56.02
ATOM ATOM	892 893	CA	GLU	419 419	38.463 39.403	-3.012 -2.328	33.450 32.570	1.00	54.28
ATOM	894	CB	GLU	419	40.149		31.710		57.57
ATOM	895	CG	GTO	419	39,385	-3.779	30.468	1.00	60.87
ATOM	896	CD	GTO .	419	40.179	-4,722	29.584	1.00	63.34
ATOM	897	OE1	GLU	419	40.173	-5.870	30.011	1.00	64.90
ATOM	898	OE2	GLU	419	40.432	-4.313	28.462	1.00	63.18
ATOM	899	C	GLU	419	38.761	-1.281	31.662	1.00	52.05
ATOM	900	0	GLU	419	37.665	-1.481	31.332	1.00	49.82
ATOM	901	N	GLY	420	39.465	-0.165	31.491	1.00	49.45
ATOM	902	CA	GLY	420	38.983	0.908	30,642	1.00	46.22
ATOM	903	C	GLY	420	37.895	1.767	31,254	1.00	44.55
ATOM	904	0	GLY	420	37.417	2.705	30.619	1.00	42,08
ATOM	905	N	MET	421	37.503	1.471	32.488	1.00	43.41
ATOM	906	CA	MET	421	36.449	2.248	33,123	1.00	42.48
ATOM	907	CB	MET	421	35.306	1.327	33.554	1.00	42.34
ATOM	908	CG	MET	421	34.590	0.635	32.396	1.00	38.22
ATOM	909	SD	MET	421	32.927	0.033	32.843	1.00	38.56
ATOM	910	CE	MET	421	32.927	1.699	32.766	1.00	35.54
MOTA	911	C	MET	421	36.923	3.059	34,312	1.00	41.64
ATOM	912	0	MET	421	36.113	3.512	35.111	1.00	39.77
ATOM	913	N	VAL	422	38.232	3.256	34.430	1.00	43.42
ATOM	914	CA	VAL	422	38.757	^ 019	35.557	1.00	44.79
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ATOM 915 CB VAL 422 40.285 4.248 35.433 1.00 46.54 ATOM 916 CG1 VAL 422 40.855 5.086 34.206 1.00 48.35 ATOM 917 CG2 VAL 422 40.813 4.920 36.696 1.00 48.35 ATOM 918 C VAL 422 40.813 4.920 36.696 1.00 44.08 ATOM 918 C VAL 422 38.086 5.372 35.689 1.00 44.08 ATOM 919 C VAL 422 37.991 5.783 36.783 1.00 44.08 ATOM 920 N GLU 423 37.996 6.085 34.570 1.00 42.07 ATOM 921 CA GLU 423 37.916 6.085 34.570 1.00 42.07 ATOM 922 CB GLU 423 37.919 8.338 31.684 1.00 40.24 ATOM 923 CG GLU 423 37.919 8.338 31.684 1.00 40.24 ATOM 924 CD GLU 423 39.411 8.467 33.893 1.00 85.04 ATOM 925 OE1 GLU 423 39.519 10.156 32.205 1.00 55.66 ATOM 926 OE2 GLU 423 39.519 10.156 32.205 1.00 55.66 ATOM 927 C GLU 423 35.519 10.156 32.205 1.00 55.66 ATOM 928 O GLU 423 33.4881 7.955 34.919 1.00 33.20 ATOM 929 N ILE 424 35.345 6.617 33.197 1.00 33.20 ATOM 930 CA ILE 424 35.345 6.617 33.197 1.00 33.20 ATOM 931 CB ILE 424 33.349 6.643 32.771 1.00 33.63 ATOM 932 CC2 ILE 424 34.639 6.097 31.347 1.00 33.48 ATOM 934 CD1 ILE 424 33.857 3.955 29.978 1.00 33.48 ATOM 935 C ILE 424 34.639 6.097 31.347 1.00 33.48 ATOM 936 O ILE 424 33.857 3.955 29.978 1.00 34.67 ATOM 936 O ILE 424 31.729 6.433 33.692 1.00 28.69 ATOM 937 N PHE 425 33.251 5.091 34.542 1.00 29.67 ATOM 938 CA PHE 425 33.251 5.091 34.542 1.00 29.67 ATOM 937 N PHE 425 33.251 5.091 34.542 1.00 29.67 ATOM 938 CA PHE 425 33.251 5.091 34.542 1.00 29.67 ATOM 937 N PHE 425 33.251 5.091 34.542 1.00 29.67 ATOM 938 CA PHE 425 33.251 5.091 34.542 1.00 29.67 ATOM 940 CG PHE 425 33.049 6.035 33.685 1.00 33.48 ATOM 937 N PHE 425 33.251 5.091 34.542 1.00 29.67 ATOM 940 CG PHE 425 33.949 6.035 33.685 1.00 33.48 ATOM 937 N PHE 425 33.251 5.091 34.542 1.00 29.67 ATOM 940 CG PHE 425 33.949 6.035 33.685 1.00 33.48 ATOM 950 CB PHE 425 33.949 6.035 33.685 1.00 33.48 ATOM 950 CB PHE 425 33.949 6.035 33.685 1.00 39.88 ATOM 950 CB PHE 425 33.949 6.035 33.685 1.00 39.88 ATOM 950 CB PHE 425 33.949 6.035 33.685 1.00 39.88 ATOM 950 CB PHE 425 33.949 6.035 33.685 1.00 39.88 ATOM 950 CB PHE 425 33.949 6.035 33.685 1.00 39.89 ATOM 950 CB
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ATOM 916 CG1 VAL 422 40.595 5.086 34.206 1.00 48.28 ATOM 919 C VAL 422 38.036 5.372 35.689 1.00 46.24 ATOM 919 O VAL 422 37.691 5.783 36.793 1.00 44.03 ATOM 919 O VAL 423 37.691 5.783 36.793 1.00 44.12 ATOM 920 N GLU 423 37.691 5.783 36.793 1.00 42.07 ATOM 921 CA GLU 423 37.192 7.356 34.616 1.00 40.24 ATOM 922 CB GLU 423 37.192 7.356 34.616 1.00 40.24 ATOM 922 CB GLU 423 37.999 8.338 33.684 1.00 44.02 ATOM 923 CG GLU 423 39.411 8.467 33.893 1.00 60.04 ATOM 925 OG1 GLU 423 39.411 8.467 33.893 1.00 65.666 ATOM 925 OG1 GLU 423 35.395 10.156 32.205 1.00 56.66 ATOM 927 C GLU 423 35.345 6.617 33.197 1.00 35.44 ATOM 926 OG2 GLU 423 35.345 6.617 33.197 1.00 36.16 ATOM 928 O GLU 423 35.345 6.617 33.197 1.00 36.16 ATOM 929 N ILE 424 35.345 6.617 33.197 1.00 36.16 ATOM 931 CB ILE 424 33.803 6.087 31.347 1.00 33.28 ATOM 931 CB ILE 424 33.803 6.087 31.347 1.00 33.58 ATOM 931 CB ILE 424 33.803 6.087 31.347 1.00 33.58 ATOM 933 CG1 ILE 424 34.639 6.936 30.395 1.00 34.46 ATOM 933 CG1 ILE 424 34.639 6.936 30.395 1.00 34.67 ATOM 935 C ILE 424 33.803 6.087 31.347 1.00 33.58 ATOM 935 C ILE 424 31.729 6.443 33.632 1.00 26.89 ATOM 936 C ILE 424 31.729 6.443 33.632 1.00 26.89 ATOM 937 N PHE 425 32.297 4.520 35.447 1.00 32.89 ATOM 937 N PHE 425 32.297 4.520 35.447 1.00 32.89 ATOM 937 N PHE 425 32.297 4.520 35.447 1.00 32.296 ATOM 940 CG PHE 425 31.948 2.496 36.595 1.00 32.17 ATOM 941 CD1 PHE 425 31.948 2.496 36.595 1.00 32.27 ATOM 940 CG PHE 425 31.948 2.496 36.595 1.00 32.27 ATOM 940 CG PHE 425 31.948 2.496 36.595 1.00 32.27 ATOM 940 CG PHE 425 31.948 2.496 36.595 1.00 32.27 ATOM 940 CG PHE 425 31.948 2.496 36.595 1.00 32.27 ATOM 940 CG PHE 425 31.948 2.496 36.595 1.00 32.27 ATOM 940 CG PHE 425 31.948 2.496 36.595 1.00 32.27 ATOM 940 CG PHE 425 31.948 2.496 36.595 1.00 32.27 ATOM 940 CG PHE 425 31.948 2.496 36.595 1.00 32.27 ATOM 940 CG PHE 425 30.89 9.596 37.566 1.00 32.29 ATOM 940 CG PHE 425 30.896 9.756 37.566 1.00 32.29 ATOM 950 CB ASP 426 33.303 8.291 38.401 1.00 33.49 ATOM 950 CB ASP 426 33.303 8.303 8.303 8.003 1.00 32.29 ATOM
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ATOM 943 CE1 PHE 425 30.244 1.814 38.563 1.00 32.60 ATOM 944 CE2 PHE 425 31.010 0.256 36.881 1.00 31.55 ATOM 945 CZ PHE 425 30.189 0.549 37.973 1.00 33.34 ATOM 946 C PHE 425 30.189 0.549 37.973 1.00 30.17 ATOM 947 O PHE 425 30.368 5.774 36.240 1.00 26.71 ATOM 948 N ASP 426 32.415 6.483 36.870 1.00 29.45 ATOM 949 CA ASP 426 31.893 7.587 37.661 1.00 32.29 ATOM 950 CB ASP 426 33.031 8.291 38.401 1.00 33.49 ATOM 951 CG ASP 426 33.455 7.546 39.655 1.00 39.42 ATOM 952 OD1 ASP 426 32.767 6.574 40.038 1.00 38.35 ATOM 953 OD2 ASP 426 32.767 6.574 40.038 1.00 38.35 ATOM 953 OD2 ASP 426 31.133 8.592 36.806 1.00 39.58 ATOM 955 O ASP 426 31.133 8.592 36.806 1.00 29.02 ATOM 955 O ASP 426 30.154 9.175 37.257 1.00 31.34 ATOM 957 CA MET 427 31.585 8.797 35.572 1.00 30.69 ATOM 958 CB MET 427 31.585 8.797 35.572 1.00 30.69 ATOM 959 CG MET 427 33.962 10.783 32.077 1.00 26.83 ATOM 950 CB MET 427 33.962 10.783 32.077 1.00 26.83 ATOM 960 SD MET 427 33.962 10.783 32.077 1.00 34.87 ATOM 961 CE MET 427 33.962 10.783 32.077 1.00 34.87 ATOM 962 C MET 427 33.962 10.783 32.077 1.00 34.87 ATOM 963 O MET 427 33.962 10.783 32.077 1.00 34.87 ATOM 963 C MET 427 33.962 10.783 32.077 1.00 34.87 ATOM 964 N LEU 428 29.451 7.902 34.057 1.00 25.01 ATOM 965 CA LEU 428 28.173 7.292 33.730 1.00 25.01 ATOM 966 CB LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 966 CB LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 966 CB LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 966 CB LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 966 CB LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 966 CB LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 966 CB LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 966 CB LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 967 CG LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 967 CG LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 967 CG LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 967 CG LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 967 CG LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 967 CG LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 967 CG LEU 428 28.379 5.824 33.332 1.00 28.00 ATO
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ATOM 955 O ASP 426 30.154 9.175 37.257 1.00 31.34 ATOM 956 N MET 427 31.585 8.797 35.572 1.00 30.69 ATOM 957 CA MET 427 30.919 9.736 34.675 1.00 28.63 ATOM 958 CB MET 427 31.744 9.912 33.407 1.00 26.83 ATOM 959 CG MET 427 33.032 10.680 33.608 1.00 31.41 ATOM 960 SD MET 427 33.962 10.783 32.077 1.00 34.87 ATOM 961 CE MET 427 35.409 11.753 32.643 1.00 44.60 ATOM 962 C MET 427 29.526 9.202 34.324 1.00 28.70 ATOM 963 O MET 427 28.536 9.947 34.302 1.00 25.01 ATOM 964 N LEU 428 29.451 7.902 34.057 1.00 25.13 ATOM 965 CA LEU 428 28.173 7.292 33.730 1.00 27.60 ATOM 966 CB LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 967 CG LEU 428 29.039 5.682 31.957 1.00 26.99
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ATOM 959 CG MET 427 33.032 10.680 33.608 1.00 31.41 ATOM 960 SD MET 427 33.962 10.783 32.077 1.00 34.87 ATOM 961 CE MET 427 35.409 11.753 32.643 1.00 44.60 ATOM 962 C MET 427 29.526 9.202 34.324 1.00 28.70 ATOM 963 O MET 427 28.536 9.947 34.302 1.00 25.01 ATOM 964 N LEU 428 29.451 7.902 34.057 1.00 25.13 ATOM 965 CA LEU 428 28.173 7.292 33.730 1.00 27.60 ATOM 966 CB LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 967 CG LEU 428 29.039 5.682 31.957 1.00 26.99
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ATOM 964 N LEU 428 29.451 7.902 34.057 1.00 25.13 ATOM 965 CA LEU 428 28.173 7.292 33.730 1.00 27.60 ATOM 966 CB LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 967 CG LEU 428 29.039 5.682 31.957 1.00 26.99
ATOM 965 CA LEU 428 28.173 7.292 33,730 1.00 27.60 ATOM 966 CB LEU 428 28.379 5.824 33.332 1.00 28.00 ATOM 967 CG LEU 428 29.039 5.682 31.957 1.00 26.99
ATOM 967 CG LEU 428 29.039 5.682 31.957 1.00 26.99
ATOM 968 CD1 LEU 428 29.678 4.303 31.782 1.00 27.80
3 MAN
ATOM 969 CD2 LEU 428 27.995 5.927 30.894 1.00 25.33
ATOM 970 C LEU 428 27.210 7.412 34.916 1.00 29.59 ATOM 971 O LEU 428 26.041 7.743 34.743 1.00 27.07
ATOM 972 N LEU 429 27.701 7.147 36.126 1.00 30.40

ATON	973	CA	LEU	429	26.859	7.251	37.323	1.00	30.59	
ATOM		CB	Leu	429	27.675	6.884	38.571	1.00	31.76	
ATOM	975	CG	LEU	429	28.078	5.415	38.757	1.00	32.43	
ATOM	976	CD1	LEU	429	28.961	5.264	39.995	1.00	31.60	
atom		CD2	LEU	429	26.825	4.573	38.903	1.00	34.66	
ATOM		C	LEU	429	26.319	8.681	37.466	1.00	30.46	
ATOM		0	LEU	429	25.143	8.901	37.769	1.00	28.40	
ATOM		N	ALA	430	27.193	9.656	37.237	1,00	31.34	
ATOM		CA	ALA	430	26.806	11,059	37.332	1.00	29.83	
ATOM		CB	ALA	430	28.017	11.951	37.078	1.00	31.29	
moța Mota		C ©	ALA ALA	430 430	25.696 24.753	11.387 12.107	36.344 36.674	1.00	31.04 30.79	
ATOM		N	THR	431	25,802	10.854	35.128	1.00	30.79	
ATOM		CA	THR	431	24.786	11,105	34.112	1.00	28.81	
ATOM		CB	THR	431	25.207	10.533	32.737	1.00	30.55	
ATOM		0G1	THR	431	26.569	10,893	32.465	1.00	31.88	
ATOM		CG2	THR	431	24,321	11.087	31.634	1.00	25.63	
ATOM	990	C	THR	431	23.462	10.481	34.530	1,00	29.49	
ATOM		0	THR	431	22.402	11.099	34.397	1.00	26,18	
ATOM		N	SER	432	23.520	9.253	35.037	1.00	28.11	
ATOM		CA	SER	432	22.308	8.573	35.480	1.00	29.78	
ATOM		CB	SER	432	22,639	7.177	36.008	1.00	33,11	
ATOM	995	OG C	SER	432	21.454	6.412	36.136	1.00	36.92	
ATOM ATOM	996 997	С 0	ser ser	432 432	21.651 20.433	9.399 9.576	36.589 36.613	1.00	31.49 30.09	
ATOM	998	N	ASER	433	20.433	9.901	37.496	0.75	32.09	
ATOM	999	Ņ	BSER.		22.474	9.906	37.500	0.25	31.10	
ATOM	1000	CA	ASER	433	22.002	10.715	38.605	0,75	35.68	
ATOM	1001	CA	BSER		21.985	10.717	38.608	0.25	32.21	
ATOM	1002	CB	ASER	433	23.185	11.097	39.502	0.75	37.18	
. ATOM	1003		BSER		23.145	11.104	39.529	0.25	31,45	
ATOM	1004		ASER		22.823	12.090	40.443	0,75	44,09	
ATOM	1005		BSER		23,785	9.953	40.053	0.25		
MOTA	1006		ASER		21.299	11.971	38.091	0.75	35.01	
MOTA MOTA	1007 1008		BSER ASER		21.295 20.257	11.976 12.373	38,092 38.612	0.25 0.75	32.88 35.34	
ATOM	1008		BSER		20.257	12.391	38.622	0.75	33,42	
ATOM	1010		ARG	434	21.867	12.579	37.054	1.00	33.38	
ATOM	1011		ARG	434	21.300	13,788	36,470	1.00	34.19	
MOTA	1012		ARG	434	22.239	14.354	35.400	1.00	33.89	
MOTA	1013	CG	ARG	434	21.670	15.528	34.625	1.00	38.30	
MOTA	1014		ARG	434	21.559	16.787	35.479	1.00	37.91	
ATOM	1015		ARG	434	21.158	17.944	34.680	1.00	37.78	
MOTA	1016		ARG.	434	20.488	18.995	35.149	1.00	41.06	
ATOM	1017		ARG	434	20.132	19,049	36.428	1.00	40.70	
ATOM	1018		ARG	434	20.175	19.998	34.337	1.00	38.78	
MOTA MOTA	1019 1020		ARG ARG	434	19.937	13.491 14.266	35.873	1.00 1.00	33.48	
ATOM	1020		PHE	434 435	18.996 19.831	12.371	36.053 35.158	1.00	30.54 34.68	
ATOM	1021		PHE	435	18.563	11.963	34.549	1.00	35.02	
MOTA	1023		PHE	435	18.727	10.634	33.796	1.00	34.96	
ATOM	1023		PHE	435	19.240	10.034	32.386	1.00	37.63	
ATOM	1025		PHE	435	19.459	12.035	31.824	1.00	42.03	
MOTA	1026		PHE	435	19.521	9.649	31.623	1.00	41.24	
ATOM	1027		PHE	435	19.953	12.164	30.521	1.00	43.11	
ATOM	1028		PHE	435	20.016	9.768	30.322	1.00	40.59	
MOTA	1029		PHE	435	20.233	11.029	29.775	1.00	40.63	
MOTA	1030	C	PHE	435	17.527	11.780	35.657	1.00	35.49	

MOTA	1031	Ο.	PHE	435	16.361	12.135	35.496	1.00	34.78	- •
MOTA	1032	N	arg	436	17.968	11.216	36.777	1.00	30,27	
ATOM	1033	CA	ARG	436	17.094	10.982	37.924	1.00	40.67	
ATOM	1034	CB	ARG	436	17.844	10.215	39.012	1.00	40.70	
ATOM	1035	CG	ARG	436	16.942	9.590	40,068	1.00	44.98	
MOTA	1036	CD	arg	436	17.648	8.459	40.810	1.00	48.09	
atom	1037	NE	ARG	436	18.982	8.841	41.275	1.00	50.16	
ATOM	1038	CZ	ARG	436	20.119	8.361	40.777	1.00	52.19	
ATOM	1039	NH1	ARG	436	20.099	7.472	39.790	1.00	49.34	
ATOM	1040	NH2	ARG	436	21.283	8,770	41.266	1.00	51,85	
ATOM	1041	C	ARG	436	16.576	12.302	38.493	1,00	40.40	
atom	1042	0	ARG	436	15.382	12.458	38,730	1.00	41.49	
ATOM	1043	N	MET	437	17.477	13.252	38.706	1.00	40.02	,
atom	1044	CA	MET	437	17.090	14.546	39.245	1.00	41.02	•
ATOM	1045	CB	MET	437	18.329	15.427	39.446	1.00	40.29	
MOTA	1046	C	MET	437	16.099	15.221	38.299	1.00	40.81	
ATOM .	1047	0	MET	437	15.111	15.805	38.734	1,00	42.46	
ATOM	1048	N	MET	438	16.367	15.127	37.001	1.00	39.02	
ATOM	1049	CA	MET	438	15.510	15.732	35.988	1.00	40.11	
MOTA	1050	CB	MET	438	16.237	15.793	34.651	1.00	38.16	
ATOM	1051	CG	MET	438	17.352	16.794	34.601	1.00	41.52	
MOTA	1052	SD	MET	438	17.999	16.862	32.943	1.00	43.94	
ATOM	1053	CE	MET	438	16.698	17.748	32.096	1.00	39.96	
ATOM	1054	C	MET	438	14.221	14.964	35.783	1.00	37.72	
ATOM	1055	0	MET	438	13.305	15.451	35.125	1.00	36.82	
ATOM	1056	N	ASN	439	14.155	13.759	36.337	1.00	38.81	
ATOM ATOM	1057 1058	CA CB	asn Asn	439 439	12.981 11.762	12.919 13.556	36.174 36.847	1.00	40.77	
ATOM	1059	CG	asn	439	10.566	12.620	36.887	1.00	48.29	
ATOM	1060	OD1	ASN	439	10.721	11.400	36.964	1.00	48.48	
ATOM	1061	ND2	ASN	439	9.365	13.189	36.829	1.00	50.23	
ATOM	1062	C	ASN	439	12.725	12.744	34.677	1.00	39.36	
ATOM	1063	0	ASN	439	11.637	13.037	34.172	1.00	37.76	
ATOM	1064	N	LEU	440	13.749	12.274	33.972	1.00	37.65	
ATOM	1065	CA	LEU	440	13.655	12.052	32.532	1.00	35,22	
ATOM	1066	CB	LEU	440	14.999	11.576	31.987	1.00	34.70	
ATOM	1067	CG	LEU	440	15.022	11.467	30.462	1.00	35.45	
ATOM	1068	CD1	LEU	440	14.890	12.862	29.869	1.00	35.24	
ATOM	1069	CD2	LEU	440	16.297	10.795	29.999	1.00	35.30	
atom	1070	C	LEU	440	12.587	11.024	32.196	1.00	36.48	
ATOM	1071	0	LEU	440	12.518	9.967	32.826	1.00	37.36	
ATOM	1072	N	GLN	441	11.763	11.328	31.197	1.00	36.82	
ATOM	1073	CA	GLN	441	10.696	10.420	30.785	1.00	38,51	
ATOM	1074	CB	GLN	441	9.431	11.211	30.443	1.00	38.23	
ATOM	1075	CG	GLN	441	8.912	12.063	31.592	1.00	42.46	
ATOM	1076	CD	ĢLN	441	8,362	11.227	32.729	1,00	44.91	
ATOM	1077	OE1	GLN	441	7.268	10.668	32.629	1.00	47.31	
ATOM	1078	NE2	GLN	441	9.119	11.132	33.818	1.00	44.06	•
ATOM	1079	C	GLN	441	11.099	9.565	29.585	1.00	38.48	
ATOM	1080	0	GLN	441	11.923	9.976	28.763	1.00	35.80	
MOTA	1081	N	GLY	442	10.500	8.378	29.494	1.00	36.03	
ATOM	1082	CA	GLY	442	10.792	7.468	28.401	1.00	37.72	•
MOTA	1083	C	GLY	442	10.599	8.112	27.043	1.00	36.88	
ATOM	1084	0	GLY	442	11.381	7.877	26.123	1.00	33.72	
MOTA	1085	N	GLU	443	9.556	8.925	26.918	1.00	36.59	
ATOM	1086	CA	GLU	443	9.269	9.603	25.661	1.00	37.13	
ATOM	1087	CB	GLU	443	7.956	10.379	25.764	1.00	41.57	
MOTA	1.088	CG	GLU	443	6.723	9.488	25.879	1,00	47.76	

MOTA	1089	CD	GLU	443	6.483	9.008	27.302	1.00	53.96
MOTA	1090	OE1	GĻU	443	5.619	8.123	27.498	1.00	57.66
ATOM	1091	OE2	GLU	443	7.159	9.515	28.225	1.00	56.13
ATOM	1092	C	GLU	443	10.408	10.551	25.311	1.00	35.27
ATOM	1093	0	GLU	443	10.759	10.704	24.145	1.00	33.85
ATOM	1094	N	GLU	444	10.984	11.179	26.331	1.00	32.09
ATOM	1095	CA	GLU	444	12.097	12.095	26.126	1,00	33.92
MOTA	1096	CB	GLU	444	12.332	12.924	27.388	1.00	34.97
MOTA	1097	CG	GLU	444	11.169	13.845	27.732	1.00	38.28
MOTA	1098	CD	GLU	444	11.383	14.610	29.023	1.00	38.11
ATOM	1099	OE1	GLU	444	11.800	13.993	30.026	1.00	39.53
ATOM	1100	OE2	GLU	444	11.132	15.834	29.036	1.00	40.77
ATOM	1101	C	GLU	444	13.356	11.305	25.770	1.00	33,59
ATOM	1102	0	GLU	444	14.085	11.670	24.842	1.00	33.35
MOTA	1103	N	PHE	445	13.590	10.215	26.501	1.00	30.68
MOTA	1104	CA	PHE	445	14.753	9.357	26.276	1,00	32,49
ATOM	1105	CB	PHE	445	14.703	8.139	27.203	1.00	29.35
MOTA	1106	CG	PHE	445	15.667	7.047	26.828	1.00	30.78
MOTA	1107	CD1	PHE	445	17.036	7.201	27.030	1.00	28.25
MOTA	1108	CD2	PHE	445	15.205	5.863	26.266	1.00	30.62
MOTA	1109	CEl	PHE	445	17.933	6.195	26.675	1.00	28.67
ATOM	1110	CE2	PHE	445	16.095	4.848	25.908	1.00	31,37
atom	1111	cz	PHE	445	17.460	5.015	26.113	1.00	30.37
ATOM	1112	C	PHE	445	14.850	8.885	24.829	1.00	31.11
ATOM	1113	0	PHE	445	15.924	8.947	24.221	1.00	32.20
ATOM	1114	N	VAL	446	13.739	8.415	24.266	1.00	28.63
MOTA	1115	CA	VAL	446	13,787	7.943	22.889	1.00	27.94
ATOM	1116	CB	VAL	446	12.478	7.193	22.478	1.00	28.48
ATOM	1117	CG1	VAL	446	12.318	5.939	23.343	1.00	29.61
MOTA	1118	CG2	VAL	446	11.265	8.092	22.607	1.00	27.23
ATOM	1119	C	VAL	446	14.099	9.064	21.900	1.00	27.28
ATOM	1120	0	VAL	446	14.781	8.837	20.904	1.00	28.07
ATOM	1121	N	CYS	447	13.619	10.275	22.166	1.00	28.97
ATOM ATOM	1122 1123	CA CB	CYS	447	13.919	11.394	21.272	1.00	29.14
ATOM	1123	SG	CYS CYS	447	13.156 11.389	12.653	21.693 21.309	1.00	28.90
ATOM	1125	C	CYS	447 447	15.420	12.591 11.677		1.00	35.68
ATOM	1126	0	CYS	447	16.063	11.885	21.328 20.302	1.00	28.03 29.34
MOTA	1127	N	LEU	448	15.969	11.686	22.538	1.00	27.28
ATOM	1128	CA	LEU	448	17,392	11.938	22.729	1.00	25.30
ATOM	1129	CB	LEU	448	17.733	11.932		1.00	27.72
ATOM	1130	ÇG	LEU	448	17.248	13.135	25.040	1.00	29.54
ATOM	1131	CD1	LEU	448	17.807	13.042	26.454	1.00	30.85
ATOM		CD2	LEU	448	17.688	14.434	24,376	1.00	30.24
ATOM	1133	C	LEU	448	18.245	10.902	22.008	1.00	27.62
ATOM	1134	0	LEU	448	19.207	11.252	21.327	1.00	25.10
ATOM	1135	N	LYS	449	17.905	9.621	22.162	1.00	25.16
ATOM	1136	CA	LYS	449	18.673	8.570	21.506	1.00	27.55
ATOM	1137	CB	LYS	449	18.135	7.185	21.900	1.00	28.99
MOTA	1138	CG	LYS	449	19.134	6.052	21.694	1.00	34.70
ATOM	1139	CD	LYS	449	18.737	4.789	22.459	1.00	32.67
ATOM	1140	CE	LYS	449	17.267	4.419	22.220	1.00	31.87
ATOM	1141	NZ	LYS	449	17.022	2.967	22.472	1.00	29.14
MOTA		C	LYS	449	18.626	8.749	19,990		25.88
ATOM	1143	0	LYS	449	19.610	8.489	19.296	1.00	25.93
ATOM	1144	N	SER	450	17.482	9.197	19.480	1.00	26.07
ATOM	1145	CA	SER	450	17.323	9.421	18.052	1.00	27.24
ATOM	1146	СВ	SER	450	15.857	9.705	17.721	1.00	32.24

ATOM	1147	OG	SER	450	15.098	8.519	17.779	1.00	34.94
atom	1148	C	SER	450	18.176	10.607	17.618	1,00	26.78
ATOM	1149	0	SER	450	18.763	10.598	16.535	1.00	25.85
MOTA	1150	Ŋ	ILE	451	18.231	11.632	18.463	1.00	26.94
ATOM	1151	CA	ILE	451	19.032	12.810	18.155	1.00	26,13
ATOM	1152	CB	ILE	451	18.950	13.850	19.291	1.00	27.72
MOTA	1153	CG2	ILE	451	20.019	14.929	19.101	1.00	20,53
MOTA	1154	CG1	ILE	451	17.553	14.475	19.322	1.00	29.49
ATOM	1155	CD1	ILE	451	17.377	15.473	20.447	1.00	36.24
ATOM	1156	С	ILE	451	20.489	12.381	17.989	1.00	24.88
MOTA	1157	O	ILE	451	21.161	12.771	17.034	1.00	26.96
MOTA	1158	N	ILE	452	20.977	11.582	18.931	1.00	22.72
MOTA	1159	CA	ILE	452	22.359	11.120	18.880	1.00	21,95
ATOM	1160	CB	ĮLΕ	452	22.660	10.155	20.050	1.00	23.57
MOTA	1161	CG2	ILE	452	23.982	9.435	19.804	1.00	22.10
MOTA	1162	CG1	ILE	452	22.718	10.949	21.371	1.00	21.70
MOTA	1163	CD1	ILE	452	22.768	10.060	22.624	1,00	25.30
ATOM	1164	C	ILE	452	22.656	10.419	17.557	1,00	23.02
ATOM	1165	0	ILE	452	23.650	10.708	16.885	1.00	21,25
ATOM	1166	N	LEU	453	21.779	9.497	17.173	1.00	22.83
ATOM	1167	CA	LEU	453	21.984	8.768	15.935	1.00	22.05
ATOM	1168	CB	LEU	453	20.843	7.764	15.733	1.00	22.06
ATOM	1169	CG	LEU	453	20.712	7.189	14.324	1.00	22.03
MOTA	1170	CD1	LEU	453	21.815	6.165	14.107	1.00	24.81
ATOM	1171	CD2	LEU	453	19.328	6.535	14.156	1.00	24.73
MOTA	1172	C	LEU	453	22.092	9.687	14,717		23.95
ATOM	1173	o N	Leu Leu	453 454	22.962	9.501	13.860	1.00	24.60
ATOM ATOM	1174 1175	CA	LEU	454	21.220 21.234	10.687 11.599	14.638	1.00	26.72 26.45
ATOM	1176	CB	LEU	454	19.852	12.242	13.494 13.330	1.00	
ATOM	1177	CG	LEU	454	18.737	11.222	13.330	1.00	25.51 30.16
ATOM	1178	CD1	LEU	454	17.405	11.926	12.955	1.00	28.76
MOTA	1179	CD2	LEU	454	19.037	10.478	11.759	1.00	32.59
ATOM	1180	C	LEU	454	22.292	12.703	13.552	1,00	28,24
ATOM	1181	ŏ	LEU	454	22.778	13.148	12.513	1.00	29.06
ATOM	1182	N	ASN	455	22.638	13.146	14.757	1.00	26.56
ATOM	1183	CA	ASN	455	23.604	14.236	14.934	1.00	26.79
MOTA	1184	CB	ASN	455	23.284	14.998	16.224	1.00	26,20
MOTA	1185	CG	ASN	455	24.174	16.217	16,419	1,00	27.26
MOTA	1186	OD1	ASN	455	24.171	17.134	15.602	1.00	30.83
MOTA	1187	ND2	asn	455	24.931	16.230	17.506	1.00	27.16
MOTA	1188	C	ASN	455	25.062	13.782	14.954	1.00	30.63
ATOM	1189	0	ASN	455	25.965	14.517	14.525	1.00	27.69
ATOM	1190	N	SER	456	25.268	12.569	15.461	1.00	30.48
ATOM	1191	CA	SER	456	26.572	11,928	15.579	1.00	35.26
MOTA	1192	CB	SER	456	26.393	10.393	15.505	1.00	39.69
ATOM	1193	OG	SER	456	25.871	9,953	14.243	1.00	30.73
MOTA	1194	C	SER	456	27.627	12.344	14.562	1.00	35.56
MOTA	1195	0	SER	456	28.599	13.041	14.884	1.00	33.00
ATOM	1196	N	GLY	457	27.437	11.886	13.334	1.00	33.88
MOTA		CA	GLY	457	28.393	12.189	12.292	1.00	36.77
MOTA	1198	C	GLY	457	27.876	13.017	11.136	1.00	37.02
MOTA	1199	0	GLY	457	28.310	12.805	10.013	1.00	38.66
ATOM	1200	N	VAL	458	26.967	13.956	11.392	1.00	39.12
ATOM	1201	CA	VAL	458	26.438	14.802	10.317	1.00	43.81
MOTA	1202	CB	VAL	458	25.231	15.648	10.755	1.00	44.25
ATOM	1203	CG1	VAL	458	24.209	15.713	9.631	1,00	44.51
MOTA	1204	CG2	VAL	458	24.638	15.098	12.013	1.00	50.53

ATOM	1205	С	VAL	458	27.472	15.801	9.817	1.00	46.72	
ATOM	1206	0	VAL	458	27.391	16.265	8.681	1.00	47.08	
ATOM	1207	N	TYR	459	28.432	16.144	10.670	1.00	50.74	
ATOM	1208	CA	TYR	459	29.456	17.114	10.301	1.00	55.43	
ATOM	1209	СВ	TYR	459	29.647	18.129	11.433	1.00	56.62	
ATOM .	1210	CG	TYR	459	28.375	18.870	11.781	1.00	59.34	
	1211		TYR							
MOTA		CD1		459	28.094	19.229	13.095	1.00	60.73	
MOTA	1212	CE1	TYR	459	26.900	19.867	13.429	1.00	62.14	
ATOM	1213	CD2	TYR	459	27.430	19.175	10.795	1.00	62.16	
MOTA	1214	CE2	TYR	459	26.234	19.812	11.118	1.00	63.83	
ATOM	1215	CZ	TYR	459	25.976	20.154	12.437	1,00	62.88	
MOTA	1216	OH	TYR	459	24.790	20.764	12.767	1.00	62.56	
ATOM	1217	C	TYR	459	30.791	16.489	9.928	1.00	57.21	
ATOM	1218	0	TYR	459	31.793	17.189	9.798	1.00	56.86	
AŢOM	1219	N	THR	460	30.800	15.173	9.750	1.00	59.22	
ATOM	1220	CA	THR	460	32.018	14,474	9.366	1.00	62.25	
MOTA	1221	CB	THR	460	32.502	13.531	10.499	1.00	63.07	
ATOM	1222	OG1	THR	460	33.474	12.613	9.983	1.00	67.80	
ATOM	1223	CG2	THR	460	31.344	12.759	11.084	1.00	60.23	
ATOM	1224	C	THR	460	31.759	13.678	8.086	1.00	63.54	
ATOM	1225	ō	THR	460	32.457	12.708	7.782	1.00	63.91	
ATOM	1226	Ŋ	PHE	461	30.758	14.113	7.326	1.00	65.06	
ATOM	1227	CA	PHE	461	30.735	13.446	6.080	1.00	67.00	
 ATOM	1228	CB	PHE	461	29,052	13.440	5,563		66.48	
				461				1.00		
ATOM	1229	CG	PHE		27.867	13.147	5.991	1.00	66.30	
ATOM	1230	CD1	PHE	461	26,657	13.754	6.312	1,00	65.58	
MOTA	1231	CD3	PHE	461	27.963	11.760	6.085	1.00	66.41	
ATOM	1232	CE1	PHE	461	25.562	12.996	6.723	1.00	65.45	
ATOM	1233	CE2	PHE	461	26.872	10.994	6.494	1.00	66.83	
ATOM	1234	CZ	PHE	461	25.670	11.616	6.814	1.00	65.12	
MOTA	1235	С	PHE	461	31.463	13.604	5.004	1.00	68.38	
ATOM	1236	0	PHE	461	32.181	14.606	4.962	1.00	68.98	
ATOM	1237	N	LEU	462	31.542	12.601	4.132	1.00	69.57	
ATOM	1238	CA	LEU	462	32.511	12.545	3.039	1.00	71.68	
MOTA	1239	CB	LEU	462	32.080	11.475	2.030	1.00	71.00	
ATOM	1240	C	LEU	462	32.810	13.856	2.304	1.00	72.40	
ATOM	1241	0	LEU	462	33.725	14.590	2.680	1.00	73.45	
MOTA	1242	N	SER	463	32,043	14.141	1.253	1.00	73.22	
ATOM	1243	CA	SER	463	32.262	15.343	0.449	1.00	72.61	
ATOM	1244	CB	SER	463	32.544	14.942	-1.005	1,00	73.38	
ATOM	1245	С	SER	463	31.126	16.362	0.491	1.00	71.17	
ATOM		0	SER	463	30.455	16.528	1.511	1.00	72.05	
ATOM	1247	•	SER	464	30.932	17.049	-0.633	1.00	68.86	
ATOM	1248		SER	464	29.892	18.063	-0.759	1.00	66.06	
ATOM	1249		SER	464	30.514	19.457	-0.704	1.00	66.26	
ATOM		C	SER	464	29.108	17.887	-2.060	1.00	63.72	
ATOM		0	SER	464	28.657	18.862	-2.662	1.00	62.88	
ATOM				465						
		N	THR		28.954	16.638	-2.493	1.00	60.93	
ATOM	1253	CA	THR	465	28.205	16.343	-3.709	1.00	57.47	
ATOM	1254	CB	THR	465	28.185	14.824	-4.004	1,00	57.80	
ATOM	1255	OG1	THR	465	27.525	14.135	-2.934	1.00	54.75	
ATOM		CG2	THR	465	29.606	14.287	-4.149	1.00	57.49	
MOTA		C	THR	465	26.767	16.824	-3.523	1.00	54.93	
ATOM		0	THR	465	26.349	17.129	-2.407	1.00	54.26	
ATOM	1259	N	LEU	466	26.013	16.892	-4.614	1.00	51.85	•
ATOM	1260	CA	LEU	466	24.625	17.330	-4.550	1.00	49.25	
ATOM	1261	CB	LEU	466	24.013	17.349	-5.956	1.00	48.74	
ATOM	1262	CG	LEU	466	22.953	18.415	-6.253	1.00	48.72	
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	ATOM	1263	CD1	LEU	466	22.156	18.002	-7.482	1.00	48.32
	ATOM	1264	CD2	LEU	466	22.033	18.594	-5.057	1.00	48.14
	ATOM	1265	C	Leu	466	23.817	16.397	-3.650	1.00	48.16
	MOTA	1266	0	LEU	466	22.961	16.845	-2.883	1.00	45.90
	moța	1267	N	Lys	467	24.093	15.099	-3.750	1.00	46.47
	ATOM	1268	CA	LYS	467	23.399	14.100	-2.947	1.00	47.45
•	ATOM	1269	СВ	LYS	467	23.802	12.693	-3.395	1.00	49.38
	ATOM	1270	CG	Lys	467	22.829	11.602	-2.974	1,00	52.70
	ATOM	1271	CD	Lyş	467	23.561	10.301	-2.682	1.00	56.48
	MOTA	1272	CE	Lys	467	23.105	9.180	-3.604	1.00	59,54
	ATOM	1273	NZ	LYS	467	24.150	8.117	-3.732	1.00	61.22
	ATOM	1274	e	LYS	467	23.738	14.284	-1.472	1.00	46.89
	ATOM	1275	0	LYS	467	22.884	14.108	-0.604	1.00	46.06
	ATOM	1276	N	SER	468	24.989	14.644	-1.202	1.00	45.82
	ATOM	1277	CA	SER	468	25.457	14.854	0.160	1.00	46.82
	ATOM	1278	CB	SER	468	26.976	15.050	0.173	1.00	47.85
	ATOM	1279	og -	SER	468	27.407	15.537	1.435	1.00	\$5.73
	MOTA	1280	C	SER	468	24.778	16.063	0.790	1.00	44.24
	MOTA	1281	O	SER	468	24.473	16.062	1.983	1.00	42.98
	ATOM	1282	N	LEU	469	24.547	17.100	-0.011	1.00	42.33
	MOTA	1283	CA	LEU	469	23,890	18.301	0.486	1.00	40.42
	MOTA	1284	CB	LEU	469	24.002	19.427	-0.545	1.00	44.47
	ATOM	1285	CG	LEU	469	25.438	19.874	-0.849	1.00	46.70
	ATOM	1286	CD1	LEU	469	25.514	20.477	-2.246	1,00	46.70
	ATOM	1287	CD2	LEU	469	25.890	20.883	0.199	1.00	47.32
	ATOM	1288	C	LEU	469	22.423	17.996	0.786	1.00	39.06
	ATOM	1289	0	LEU	469	21.856	18.505	1.760	1.00	34.97
	ATOM	1290	N	GLU	470	21.814	17.151	-0.046	1.00	35.46
	ATOM	1291	CA	GLU	470	20.418	16.768	0.145	1.00	34.38
	ATOM	1292	CB	GLU	470	19.914	15,963	-1.052	1.00	38.02
	ATOM	1293	CG	GLU	470	19.772	16.773	-2.329	1.00	42.67
	ATOM ATOM	1294 1295	CD OF1	GLU GLU	470	19.339	15.923	~3.509	1.00	48.30
	ATOM	1295	OE1 OE2	GLU	470 470	19.671 18.666	14.716 16.463	-3.538	1.00	50.53 51.06
	ATOM	1297	C	GLU	470	20.290	15.916	-4.412 1.403	1.00	34.37
	ATOM	1298	0	GLU	470	19.321	16.035	2,157	1.00	32.60
	ATOM	1299	N	GLU	471	21.274	15.046	1.606	1.00	34.66
	ATOM	1300	CA	GLU	471	21.309	14,162	2.766	1.00	35.68
	ATOM	1301			471	22.515	13.222	2.671		34.57
	ATOM	1302	CG	GLU	471	22.376	12.122	1.614		37.98
	ATOM	1303	CD	GLU	471	21.476	10.989	2.063	1.00	39,79
	ATOM	1304	OE1	GLU	471	20.268	11.027	1.743	1.00	41.12
	ATOM	1305	OE2	GLU	471	21.974	10.061	2.737	1.00	32.11
	ATOM	1306	C	GLU	471	21.393	14.983	4.052	1.00	34.79
	ATOM	1307	0	GLU	471	20.596	14.793	4.969	1.00	32.80
	ATOM	1308	N	LYS	472	22.358	15.898	4.112	1.00	33.93
	ATOM	1309	CA	LYS	472	22.518	16.739	5.291	1.00	35.58
	MOTA	1310	CB	LYS	472	23.683	17.710	5.097	1.00	39.11
	ATOM	1311	CG	ĻYS	472	25.050	17.050	5.138	1.00	41.47
	ATOM	1312	CD	LYS	472	26.080	17.957	5.794	1.00	46.97
	ATOM	1313	CE	LYS	472	27.445	17.286	5.862		48,40
	MOTA	1314	NZ	LYS	472	27.850	16.702	4.547	1.00	51.55
	ATOM	1315	C	LYS	472	21.237	17.523	5.582	1.00	34.78
	ATOM	1316	0	LYS	472	20.795	17.607	6.724	1.00	33.95
	ATOM	1317	N	ASP	473	20.643	18.097	4.545	1.00	33.47
	ATOM .	1318	CA	ASP	473	19.420	18.865	4.720	1.00	34.63
	ATOM	1319	CB	ASP	473	18.923	19.404	3.380	1,00	37.21
	ATOM	1320	CG	ASP	473	17.654	20.221	3.522	1.00	43.24

OM 1322 OD2 ASP 473 17.780 21.396 3.932 1.00 48.59 OM 1324 0 ASP 473 18.339 17.998 3.330 1.00 32.87 OM 1325 N HIS 474 18.199 16.784 4.827 1.00 32.74 OM 1326 CA HIS 474 17.185 15.882 5.343 1.00 32.79 OM 1327 CB HIS 474 17.185 14.575 4.568 1.00 32.79 OM 1328 CG HIS 474 14.711 13.813 4.750 1.00 32.79 OM 1328 CG HIS 474 14.711 13.813 4.750 1.00 38.37 OM 1330 ND1 HIS 474 16.047 13.675 4.924 1.00 36.22 OM 1329 CD2 HIS 474 14.711 13.813 4.750 1.00 38.37 OM 1331 CE1 HIS 474 15.053 11.883 5.732 1.00 37.99 OM 1331 CE1 HIS 474 16.047 13.685 5.542 1.00 37.99 OM 1332 NE2 HIS 474 14.16 12.686 5.261 1.00 37.43 OM 1333 C HIS 474 14.616 12.686 5.261 1.00 37.43 OM 1333 C HIS 474 16.460 15.543 7.896 1.00 29.74 OM 1335 N ILE 475 18.653 15.326 7.185 1.00 27.80 OM 1336 CA ILE 475 18.653 15.326 7.185 1.00 27.80 OM 1338 CB ILE 475 18.971 15.014 8.571 1.00 25.61 OM 1339 CB ILE 475 20.478 14.708 8.720 1.00 27.80 OM 1338 CG2 ILE 475 20.478 14.708 8.720 1.00 27.17 OM 1338 CG1 ILE 475 18.576 16.201 7.849 1.00 27.17 OM 1340 CD1 ILE 475 18.566 17.404 9.054 1.00 27.91 OM 1341 C ILE 475 18.561 17.404 9.054 1.00 27.91 OM 1341 C ILE 475 18.561 17.404 9.054 1.00 27.91 OM 1342 O ILE 475 18.561 17.404 9.054 1.00 27.91 OM 1342 O ILE 475 18.956 17.404 9.054 1.00 27.91 OM 1342 C ILE 475 18.561 17.404 9.054 1.00 27.91 OM 1341 C ILE 475 18.561 17.404 9.054 1.00 27.91 OM 1342 C ILE 475 18.561 17.404 9.054 1.00 27.97 OM 1345 CB HIS 476 18.956 17.404 9.054 1.00 29.41 OM 1344 CA HIS 476 18.956 17.404 9.054 1.00 29.41 OM 1345 CB HIS 476 19.342 19.796 9.281 1.00 32.27 OM 1345 CB HIS 476 19.342 19.796 9.281 1.00 39.81 OM 1355 CB ARG 477 14.343 18.376 7.597 1.00 39.81 OM 1355 CB ARG 477 14.343 18.376 7.597 1.00 39.98 OM 1355 CB ARG 477 14.343 18.376 7.597 1.00 34.95 OM 1355 CB ARG 477 14.342 19.796 9.281 1.00 32.27 OM 1355 CB ARG 477 14.343 18.376 7.597 1.00 34.95 OM 1356 CG ARG 477 14.343 18.376 7.597 1.00 34.95 OM 1356 CG ARG 477 14.425 19.627 6.700 1.00 40.46 OM 1356 CG ARG 477 14.425 19.627 6.700 1.00 40.46 OM 1356 CG ARG 477 14.425 19.627 6.700 1.00 40.46				•							
OM 1322 OD2 ASP 473 17.780 21.396 3.932 1.00 48.59 OM 1324 0 ASP 473 18.339 17.998 3.338 1.00 32.93 OM 1324 0 ASP 473 17.642 18.416 6.264 1.00 32.87 OM 1325 N HIS 474 18.199 16.784 4.827 1.00 32.74 OM 1326 CA HIS 474 17.185 15.882 5.343 1.00 32.21 OM 1327 CB HIS 474 17.185 14.575 4.568 1.00 32.79 OM 1328 CG HIS 474 16.047 13.675 4.924 1.00 36.22 OM 1329 CD2 HIS 474 16.047 13.675 4.924 1.00 36.22 OM 1330 ND1 HIS 474 16.047 13.675 4.924 1.00 36.22 OM 1331 CE1 HIS 474 16.047 13.675 5.542 1.00 38.37 OM 1331 CE1 HIS 474 16.027 12.456 5.542 1.00 37.99 OM 1331 CE1 HIS 474 16.053 11.883 5.732 1.00 37.99 OM 1332 NE2 HIS 474 14.116 12.686 5.561 1.00 37.43 OM 1333 ND HIS 474 16.460 15.543 7.996 1.00 29.74 OM 1334 O HIS 474 16.660 15.543 7.896 1.00 29.74 OM 1335 N LLE 475 18.653 15.326 7.185 1.00 27.80 OM 1336 CA LLE 475 18.653 15.326 7.185 1.00 27.80 OM 1338 CG2 LLE 475 20.478 14.708 8.720 1.00 27.80 OM 1338 CG2 LLE 475 20.478 14.708 8.720 1.00 27.17 OM 1338 CG1 LLE 475 20.478 14.708 8.720 1.00 27.17 OM 1340 CD1 LLE 475 18.653 15.326 7.185 1.00 27.91 OM 1341 C LLE 475 18.576 16.201 9.460 1.00 27.91 OM 1341 C LLE 475 18.576 16.201 9.460 1.00 27.91 OM 1341 C LLE 475 18.576 16.201 9.460 1.00 27.91 OM 1341 C LLE 475 18.561 18.576 19.409 10.00 27.91 OM 1342 O LLE 475 18.956 17.404 9.054 1.00 29.41 OM 1344 CA HIS 476 18.956 17.404 9.054 1.00 29.41 OM 1345 CB HIS 476 19.342 19.796 9.281 1.00 39.81 OM 1345 CB HIS 476 21.899 20.027 9.486 1.00 29.73 OM 1345 CB HIS 476 21.895 19.707 10.915 1.00 39.81 OM 1345 CB HIS 476 21.895 19.707 10.915 1.00 39.98 OM 1350 NE2 HIS 476 21.895 19.707 10.915 1.00 39.98 OM 1351 C HIS 476 12.899 20.027 9.486 1.00 29.79 OM 1345 CB HIS 476 12.899 20.027 9.486 1.00 39.99 OM 1353 N ARG 477 14.343 18.376 7.557 1.00 34.95 OM 1355 CB ARG 477 14.343 18.376 7.557 1.00 34.95 OM 1355 CB ARG 477 14.343 18.376 7.557 1.00 34.95 OM 1355 CB ARG 477 14.343 18.376 7.557 1.00 34.95 OM 1356 CB ARG 477 14.343 18.376 7.557 1.00 34.95 OM 1356 CB ARG 477 14.343 18.376 7.557 1.00 34.95 OM 1366 NH1 ARG 477 12.756 22.106 5.274 1					•						
OM 1322 OD2 ASP 473 17.780 21.396 3.932 1.00 48.59 OM 1324 0 ASP 473 18.339 17.998 3.338 1.00 32.93 OM 1324 0 ASP 473 17.642 18.416 6.264 1.00 32.87 OM 1325 N HIS 474 18.199 16.784 4.827 1.00 32.74 OM 1326 CA HIS 474 17.185 15.882 5.343 1.00 32.21 OM 1327 CB HIS 474 17.185 14.575 4.568 1.00 32.79 OM 1328 CG HIS 474 16.047 13.675 4.924 1.00 36.22 OM 1329 CD2 HIS 474 16.047 13.675 4.924 1.00 36.22 OM 1330 ND1 HIS 474 16.047 13.675 4.924 1.00 36.22 OM 1331 CE1 HIS 474 16.047 13.675 5.542 1.00 38.37 OM 1331 CE1 HIS 474 16.027 12.456 5.542 1.00 37.99 OM 1331 CE1 HIS 474 16.053 11.883 5.732 1.00 37.99 OM 1332 NE2 HIS 474 14.116 12.686 5.561 1.00 37.43 OM 1333 ND HIS 474 16.460 15.543 7.996 1.00 29.74 OM 1334 O HIS 474 16.660 15.543 7.896 1.00 29.74 OM 1335 N LLE 475 18.653 15.326 7.185 1.00 27.80 OM 1336 CA LLE 475 18.653 15.326 7.185 1.00 27.80 OM 1338 CG2 LLE 475 20.478 14.708 8.720 1.00 27.80 OM 1338 CG2 LLE 475 20.478 14.708 8.720 1.00 27.17 OM 1338 CG1 LLE 475 20.478 14.708 8.720 1.00 27.17 OM 1340 CD1 LLE 475 18.653 15.326 7.185 1.00 27.91 OM 1341 C LLE 475 18.576 16.201 9.460 1.00 27.91 OM 1341 C LLE 475 18.576 16.201 9.460 1.00 27.91 OM 1341 C LLE 475 18.576 16.201 9.460 1.00 27.91 OM 1341 C LLE 475 18.561 18.576 19.409 10.00 27.91 OM 1342 O LLE 475 18.956 17.404 9.054 1.00 29.41 OM 1344 CA HIS 476 18.956 17.404 9.054 1.00 29.41 OM 1345 CB HIS 476 19.342 19.796 9.281 1.00 39.81 OM 1345 CB HIS 476 21.899 20.027 9.486 1.00 29.73 OM 1345 CB HIS 476 21.895 19.707 10.915 1.00 39.81 OM 1345 CB HIS 476 21.895 19.707 10.915 1.00 39.98 OM 1350 NE2 HIS 476 21.895 19.707 10.915 1.00 39.98 OM 1351 C HIS 476 12.899 20.027 9.486 1.00 29.79 OM 1345 CB HIS 476 12.899 20.027 9.486 1.00 39.99 OM 1353 N ARG 477 14.343 18.376 7.557 1.00 34.95 OM 1355 CB ARG 477 14.343 18.376 7.557 1.00 34.95 OM 1355 CB ARG 477 14.343 18.376 7.557 1.00 34.95 OM 1355 CB ARG 477 14.343 18.376 7.557 1.00 34.95 OM 1356 CB ARG 477 14.343 18.376 7.557 1.00 34.95 OM 1356 CB ARG 477 14.343 18.376 7.557 1.00 34.95 OM 1366 NH1 ARG 477 12.756 22.106 5.274 1					•						
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OM 1324 O ASP 473 17.642 18.416 6.264 1.00 32.87 OM 1325 N HIS 474 18.199 16.784 4.827 1.00 32.21 OM 1326 CA HIS 474 17.185 15.882 5.343 1.00 32.21 OM 1326 CA HIS 474 17.185 15.882 5.343 1.00 32.21 OM 1328 CG HIS 474 16.047 13.675 4.924 1.00 36.22 OM 1329 CD2 HIS 474 16.047 13.675 4.924 1.00 36.22 OM 1329 CD2 HIS 474 16.047 13.675 4.924 1.00 38.33 OM 1330 ND1 HIS 474 16.227 12.456 5.542 1.00 38.33 OM 1331 CE1 HIS 474 15.053 11.883 5.732 1.00 37.99 OM 1332 NE2 HIS 474 14.116 12.686 5.261 1.00 37.43 OM 1333 C HIS 474 14.116 12.686 5.261 1.00 37.43 OM 1333 C HIS 474 16.460 15.543 7.896 1.00 29.74 OM 1334 O HIS 474 16.460 15.543 7.896 1.00 29.74 OM 1335 N ILE 475 18.653 15.326 7.185 1.00 27.80 OM 1336 CA ILE 475 18.671 15.004 9.571 1.00 25.61 OM 1337 CB ILE 475 20.478 14.708 8.720 1.00 25.59 OM 1339 CG1 ILE 475 20.478 14.708 8.720 1.00 25.59 OM 1340 CD1 ILE 475 20.787 14.713 10.193 1.00 27.17 OM 1340 CD1 ILE 475 18.576 16.201 9.460 1.00 27.91 OM 1342 O ILE 475 18.576 16.201 9.460 1.00 27.91 OM 1342 O ILE 475 18.576 16.201 9.460 1.00 27.91 OM 1343 N HIS 476 18.521 18.575 9.846 1.00 29.16 OM 1346 CG HIS 476 18.521 18.575 9.846 1.00 29.16 OM 1346 CG HIS 476 18.555 17.404 9.054 1.00 29.16 OM 1348 ND HIS 476 18.5621 18.575 9.846 1.00 29.16 OM 1348 ND HIS 476 18.5621 18.575 9.846 1.00 29.73 OM 1346 CG HIS 476 18.555 17.404 9.054 1.00 29.41 OM 1348 ND HIS 476 18.5621 18.575 9.846 1.00 29.73 OM 1348 ND HIS 476 18.5621 18.575 9.846 1.00 29.73 OM 1345 CB HIS 476 20.777 19.867 9.699 1.00 39.44 OM 1347 CD2 HIS 476 20.777 19.867 9.699 1.00 39.40 OM 1349 CE1 HIS 476 21.809 20.067 8.808 1.00 39.99 OM 1349 CE1 HIS 476 18.631 18.575 9.846 1.00 39.99 OM 1349 CE1 HIS 476 18.636 19.336 10.951 1.00 39.99 OM 1355 CB ARG 477 14.429 18.570 8.956 1.00 34.95 OM 1355 CB ARG 477 14.429 18.570 8.956 1.00 34.95 OM 1355 CB ARG 477 14.429 18.570 8.956 1.00 34.95 OM 1355 CB ARG 477 14.425 19.627 6.700 1.00 55.89 OM 1356 CG ARG 477 14.425 19.627 6.700 1.00 55.89 OM 1361 NH2 ARG 477 14.084 22.558 3.457 1.00 55.89 OM 1361 NH2 ARG 477 14.084 22.558 3.		45.59	1.00								ATOM
OM		32.93	1.00	5.338		18.339			C		MOTA
OM		32.87	1.00	6.264		17.642					MOTA
OM 1327 CB HIS 474 17.185 14.575 4.568 1.00 32.79 OM 1328 CG HIS 474 16.047 13.675 4.924 1.06 36.22 OM 1329 CD2 HIS 474 14.711 13.813 4.750 1.06 38.33 OM 1330 ND1 HIS 474 16.227 12.456 5.542 1.00 37.99 OM 1331 CE1 HIS 474 15.053 11.883 5.732 1.00 37.99 OM 1332 NE2 HIS 474 17.403 15.573 6.815 1.00 27.43 OM 1333 C HIS 474 16.460 15.573 6.815 1.00 29.74 OM 1334 O HIS 474 16.460 15.543 7.596 1.00 29.90 OM 1335 N ILE 475 18.653 15.326 7.185 1.00 27.80 OM 1336 CA ILE 475 18.653 15.326 7.185 1.00 27.80 OM 1337 CB ILE 475 20.478 14.708 8.720 1.00 25.59 OM 1338 CG2 ILE 475 20.478 14.708 8.720 1.00 25.59 OM 1339 CG1 ILE 475 20.877 14.713 10.193 1.00 27.17 OM 1340 CD1 ILE 475 22.258 13.071 7.849 1.00 27.17 OM 1341 C ILE 475 18.576 16.201 9.460 1.00 27.91 OM 1341 C ILE 475 18.956 17.404 9.054 1.00 27.91 OM 1343 N HIS 476 18.956 17.404 9.054 1.00 29.16 OM 1344 CA HIS 476 18.621 18.575 9.846 1.00 29.73 OM 1346 CB HIS 476 20.777 19.867 9.699 1.00 32.27 OM 1347 CD2 HIS 476 20.777 19.867 9.699 1.00 32.27 OM 1348 ND1 HIS 476 21.809 20.067 8.808 1.00 39.98 OM 1351 C HIS 476 21.355 19.707 10.915 1.00 39.81 OM 1348 ND1 HIS 476 21.809 20.067 8.808 1.00 39.79 OM 1351 C HIS 476 17.120 18.810 9.948 1.00 39.79 OM 1352 C ARG 477 14.425 19.627 6.700 31.53 OM 1355 CB ARG 477 14.425 19.627 6.700 31.53 OM 1356 CA ARG 477 14.425 19.627 6.700 31.53 OM 1357 CD ARG 477 14.425 19.627 6.700 31.53 OM 1358 NE ARG 477 14.425 19.627 6.700 31.60 31.53 OM 1359 CD ARG 477 14.425 19.627 6.700 31.60 45.22 OM 1359 CD ARG 477 14.425 19.627 6.700 1.00 45.22 OM 1359 CD ARG 477 14.425 19.627 6.700 1.00 45.22 OM 1359 CD ARG 477 14.343 18.376 7.557 1.00 31.60 OM 1359 CD ARG 477 14.325 19.627 6.700 1.00 45.22 OM 1359 CD ARG 477 14.325 19.627 6.700 1.00 45.22 OM 1350 NHI ARG 477 13.698 19.445 5.370 1.00 55.617 OM 1361 NH2 ARG 477 14.084 22.558 3.457 1.00 59.49 OM 1362 C ARG 477 14.360 17.582 9.991 1.00 30.70 OM 1361 NH2 ARG 477 14.084 22.558 3.457 1.00 59.49		32.74	1.00	4.827			474.		И		MOTA
OM		32.21	1.00								MOTA
OM 1329 CD2 HIS 474 14.711 13.813 4.750 1.00 38.33 OM 1330 ND1 HIS 474 16.227 12.455 5.542 1.00 38.97 OM 1331 CE1 HIS 474 15.053 11.883 5.732 1.00 37.99 OM 1332 NE2 HIS 474 14.116 12.686 5.261 1.00 37.43 OM 1333 C HIS 474 17.403 15.573 6.815 1.00 29.74 OM 1334 O HIS 474 16.460 15.573 6.815 1.00 29.74 OM 1335 N ILE 475 18.653 15.326 7.185 1.00 27.80 OM 1335 N ILE 475 18.653 15.326 7.185 1.00 27.80 OM 1337 CB ILE 475 20.478 14.708 8.720 1.00 25.61 OM 1337 CB ILE 475 20.478 14.708 8.720 1.00 25.59 OM 1338 CG2 ILE 475 20.478 14.708 8.720 1.00 25.59 OM 1339 CG1 ILE 475 20.877 14.713 10.193 1.00 27.17 OM 1340 CD1 ILE 475 22.258 13.071 7.849 1.00 27.07 OM 1341 C ILE 475 18.576 16.201 9.460 1.00 27.07 OM 1341 C ILE 475 18.576 16.201 9.460 1.00 27.91 OM 1343 N HIS 476 18.576 16.201 9.460 1.00 29.16 OM 1344 CA HIS 476 18.621 18.575 9.846 1.00 29.16 OM 1346 CG HIS 476 20.777 19.867 9.284 1.00 29.73 OM 1346 CG HIS 476 20.777 19.867 9.284 1.00 29.73 OM 1347 CD2 HIS 476 20.777 19.867 9.284 1.00 29.73 OM 1346 CG HIS 476 20.777 19.867 9.699 1.00 33.44 OM 1347 CD2 HIS 476 21.809 20.067 8.808 1.00 39.79 OM 1349 CE1 HIS 476 22.559 20.027 9.456 1.00 39.98 OM 1350 NE2 HIS 476 22.559 20.027 9.456 1.00 39.98 OM 1350 NE2 HIS 476 22.559 20.027 9.456 1.00 39.98 OM 1350 NE2 HIS 476 12.809 20.067 8.808 1.00 39.99 OM 1350 NE2 HIS 476 12.809 20.067 8.808 1.00 39.99 OM 1350 NE2 HIS 476 12.809 20.067 8.808 1.00 39.99 OM 1350 NE2 HIS 476 12.809 20.067 8.808 1.00 39.99 OM 1350 NE2 HIS 476 12.809 20.067 8.808 1.00 39.99 OM 1350 NE2 HIS 476 12.809 20.067 8.808 1.00 39.99 OM 1350 NE2 HIS 476 12.809 20.067 8.808 1.00 39.99 OM 1350 NE2 HIS 476 12.809 20.067 8.808 1.00 39.99 OM 1350 NE2 HIS 476 12.809 20.067 8.809 10.735 1.00 40.26 OM 1350 NE2 HIS 476 12.809 20.067 8.809 10.735 1.00 40.26 OM 1350 NE2 HIS 476 12.809 20.067 8.809 10.735 1.00 40.26 OM 1350 NE2 HIS 476 22.559 20.027 9.456 1.00 31.40 OM 1350 NE2 HIS 476 12.809 20.067 8.809 10.735 1.00 40.26 OM 1351 C HIS 476 12.809 20.067 8.809 10.00 31.40 OM 1350 NE2 HIS 476 12.809 20.067 8.809 10.00 31.	,	32.79									MOTA
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OM 1355 CB ARG 477 14.343 18.376 7.557 1.00 34.95 OM 1356 CG ARG 477 14.425 19.627 6.700 1.00 40.46 OM 1357 CD ARG 477 13.698 19.445 5.370 1.00 45.22 OM 1358 NE ARG 477 14.107 20.456 4.399 1.00 53.05 OM 1359 CZ ARG 477 13.647 21.705 4.376 1.00 55.89 OM 1360 NH1 ARG 477 12.756 22.106 5.274 1.00 56.17 OM 1361 NH2 ARG 477 14.084 22.558 3.457 1.00 59.49 OM 1362 C ARG 477 14.310 17.582 9.931 1.00 30.70 OM 1363 O ARG 477 13.360 17.903 10.649 1.00 30.24		31.82	1.00	8.929	18.396	16.374	477	ARG	N	1353	ATOM
OM 1356 CG ARG 477 14.425 19.627 6.700 1.00 40.46 OM 1357 CD ARG 477 13.698 19.445 5.370 1.00 45.22 OM 1358 NE ARG 477 14.107 20.456 4.399 1.00 53.05 OM 1359 CZ ARG 477 13.647 21.705 4.376 1.00 55.89 OM 1360 NH1 ARG 477 12.756 22.106 5.274 1.00 56.17 OM 1361 NH2 ARG 477 14.084 22.558 3.457 1.00 59.49 OM 1362 C ARG 477 14.310 17.582 9.931 1.00 30.70 OM 1363 O ARG 477 13.360 17.903 10.649 1.00 30.24		31.53	1,00	8.956	18.570	14.929	477	ARG	CA	1354	ATOM.
OM 1357 CD ARG 477 13.698 19.445 5.370 1.00 45.22 OM 1358 NE ARG 477 14.107 20.456 4.399 1.00 53.05 OM 1359 CZ ARG 477 13.647 21.705 4.376 1.00 55.89 OM 1360 NH1 ARG 477 12.756 22.106 5.274 1.00 56.17 OM 1361 NH2 ARG 477 14.084 22.558 3.457 1.00 59.49 OM 1362 C ARG 477 14.310 17.582 9.931 1.00 30.70 OM 1363 O ARG 477 13.360 17.903 10.649 1.00 30.24		34.95	1.00	7.557	18.376	14.343	477	ARG	CB	•	ATOM
OM 1358 NE ARG 477 14.107 20.456 4.399 1.00 53.05 OM 1359 CZ ARG 477 13.647 21.705 4.376 1.00 55.89 OM 1360 NH1 ARG 477 12.756 22.106 5.274 1.00 56.17 OM 1361 NH2 ARG 477 14.084 22.558 3.457 1.00 59.49 OM 1362 C ARG 477 14.310 17.582 9.931 1.00 30.70 OM 1363 O ARG 477 13.360 17.903 10.649 1.00 30.24											MOTA
OM 1359 CZ ARG 477 13.647 21.705 4.376 1.00 55.89 OM 1360 NH1 ARG 477 12.756 22.106 5.274 1.00 56.17 OM 1361 NH2 ARG 477 14.084 22.558 3.457 1.00 59.49 OM 1362 C ARG 477 14.310 17.582 9.931 1.00 30.70 OM 1363 O ARG 477 13.360 17.903 10.649 1.00 30.24											ATOM
OM 1360 NH1 ARG 477 12.756 22.106 5.274 1.00 56.17 OM 1361 NH2 ARG 477 14.084 22.558 3.457 1.00 59.49 OM 1362 C ARG 477 14.310 17.582 9.931 1.00 30.70 OM 1363 O ARG 477 13.360 17.903 10.649 1.00 30.24											ATOM
OM 1361 NH2 ARG 477 14.084 22.558 3.457 1,00 59.49 OM 1362 C ARG 477 14.310 17.582 9.931 1.00 30.70 OM 1363 O ARG 477 13.360 17.903 10.649 1.00 30.24											MOTA
DM 1362 C ARG 477 14.310 17.582 9.931 1.00 30.70 DM 1363 O ARG 477 13.360 17.903 10.649 1.00 30.24											ATOM
DM 1363 O ARG 477 13.360 17.903 10.649 1.00 30.24											ATOM
											ATOM
JM 1364 N VAL 4/8 14.863 16.375 9.972 1.00 29.67											ATOM
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											MOTA

MOTA	1379	N	ASP	480	15.076	18.703	13.415	1.00	31.52
ATOM	1380	CA	ASP	480	14.162	19.800	13.741	1.00	33.84
MOTA	1381	CB	ASP	480	13.943	20.712	12.528	1.00	34.37
ATOM	1382	CG	ASP	480		. 21.743	12.345	1.00	36.26
ATOM	1383	OD1	asp	480	15.119	22.354	11.257	1.00	36.56
MOTA	1384	OD2	ASP	480	15.860	21.951	13.274	1.00	34.19
ATOM	1385	C	ASP	480	12.818	19.222	14.174	1.00	33.48
atom	1386	0	ASP	480	12.186	19.724	15.105	1.00	33.89
MOTA	1387	N	LYS	481	12.379	18.161	13.498	1.00	33.90
MOTA	1388	CA	LYS	481	11.106	17.536	13.839	1.00	32.97
ATOM	1389	CB	LYS	481	10.719	16.489	12.784	1,00	34.66
ATOM	1390	C	LYS	481	11.164	16.895	15.225	1.00	33.57
MOTA	1391	0	LYS	481	10.167	16.869	15.943	1.00	35.37
MOTA	1392	N	ILE	482	12.328	16.377	15.607	1.00	32,71
MOTA	1393	CA	TLE	482	12.457	15.764	16.932	1.00	31.60
MOTA	1394	CB	ILE	482	13.743	14.913	17.028	1.00	32.65
MOTA	1395	ÇG2	ILE	482	13.877	14.338	18.430	1.00	32.50
atom	1396	CG1	ILE	482	13.697	13.785	15.995		32.72
ATOM	1397	CD1	ILE		14.978	12.969	15.908	1.00	33.37
MOTA	1398	C	ILE	482	12.456	16.853	17.994	1.00	31.69
MOTA	1399	0	ILE	482	11.946	16.649	19.097	1.00	29.98
MOTA	1400	N	THR	483	13.027	18.012	17.679	1.00	31.33
ATOM	1401	CA	THR	483	13.022	19.109	18.644	1.00	31.71
ATOM	1402	CB	THR	483	13.756	20.351	18.109	1.00	32.92
ATOM	1403	OG1	THR	483	15.111	20.012	17.788	1.00	29.99
ATOM	1404	CG2	THR	483	13.756	21.452	19.160	1.00	30.47
ATOM	1405	C	THR	483	11.559	19.483	18.920	1.00	32.85
MOTA	1406	0 .	THR	483	11.146	19.598	20.070	1.00	31.83
ATOM	1407	N	ASP	484	10.785	19.656	17.851	1.00	31.91
MOTA	1408	CA	ASP ASP	484	9.369	20.003 20.013	17.965 16.591	1,00 1,00	34.15 37.41
atom atom	1409	CB CG	ASP	484 484	8.708 9,270	21.080	15.680	1.00	42.02
ATOM	1410 1411	OD1	ASP	484	9.871	22.045	16.198	1.00	43.26
ATOM	1412	OD1	ASP	484	9.106	20.952	14.445	1.00	42,49
ATOM	1413	C	ASP	484	8.657	18.985	18.840	1,00	33.16
ATOM	1414	0	ASP	484	7.830	19.339	19.676	1,00	34.86
ATOM	1415	N	THR	485	8.996	17.715	18.646	1.00	33,91
ATOM	1416		THR	485	8.396	16.635	19.414	1,00	34.41
ATOM	1417	CB	THR	485	8.875	15.268	18.885		33.58
ATOM	1418	OG1	THR	485	8,400	15.094	17.542	1.00	37.04
ATOM	1419	CG2	THR	485	8.347	14.138	19.751	1.00	30.89
ATOM	1420	C	THR	485	8,708	16.757	20.903	1.00	35.15
ATOM	1421	0	THR	485	7.818	16.600	21.744	1.00	31,99
ATOM	1422	N	LEU	486	9.966	17.046	21.229	1.00	33.77
ATOM	1423	CA	LEU	486	10.368	17.192	22.621	1.00	34.31
ATOM	1424	CB	LEU	486	11.879	17.448	22.721	1.00	32,00
ATOM	1425	CG	LEU	486	12.776	16.201	22.754	1.00	34.99
ATOM	1426	CD1	LEU	486	14.233	16.613	22.521	1,00	32,65
ATOM	1427	CD2	LEU	486	12,635	15.481	24.105	1.00	29.90
ATOM	1428	С	LEU	486	9.597	18.348	23.256	1.00	34.87
MOTA	1429	0	LEU	486	9.078	18.225	24.362	1.00	35.85
MOTA	1430	N	ILE	487	9.513	19.469	22.548	1.00	35.59
ATOM	1431	CA	ILE	487	8.787	20.625	23,064	1,00	36.79
ATOM	1432	CB	ILE	487	8.890	21.826	22.095	1.00	37.32
MOTA	1433	CG2	ILE	487	7.833	22.884	22.443	1.00	40.19
MOTA	1434	CG1	ILE	487	10.292	22.443	22.181	1.00	36.00
MOTA	1435	CD1	ILE	487	10.635	23.041	23.544	1.00	33.58
MOTA	1436	C	ILE	487	7.315	20.257	23.276	1.00	38.56

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MOTA	1437	0	ILE	487	6.708	20.628	24.282	1.00	38.52
ATOM	1438		HIS	488	6.749	19.521	22.326	1.00	40.33
ATOM	1439		HIS	488	5.357	19.096	22.427	1.00	42.29
ATOM	1440		HIS	488	4.962	18.282	21.197	1.00	44.26
ATOM	1441		HIS	488	3.612	17.647	21.305	1.00	47.75
ATOM	1442		HIS	488	2.369	18.175	21,214	1.00	47.46
ATOM	1443	ND1	HIS	488	3.440	16.298	21.534	1.00	51.09
ATOM	1444	CE1	HIS	488	2.148	16.023	21.577	1.00	51.15
MOTA	1445	NE2	HIS	488	1.477	17.144	21.385	1.00	50.22
ATOM	1446	C	HIS	488	5.154	18.254	23.685	1.00	42.55
ATOM	1447		HIS	488	4.233	18.498	24.467		43.02
ATOM	1448	N	LEU	489	6.022	17,266	23.879	1,00	39.91
MOTA	1449	ÇA	LEU	489	5.936	16.399	25.048	1.00	39.93
ATOM	1450	CB	LEU	489	7.087	15.396	25.048	1,00	38.83
ATOM	1451	CG	LEU	489	6.961	14.242	24.056	1.00	39.31
ATOM	1452	CD1	LEU	489	8.259	13.456	24.027	1.00	39.01
ATOM	1453	CD2	LEU	489	5.799	13,345	24.459	1.00	41.98
ATOM	1454	C	LEU	489	5.973	17.203	26.339	1.00	40.24
ATOM	1455	0	LEU	489	5.267	16.888	27.298	1.00	38.72
ATOM	1456	N	MET	490	6.798	18.246	26.353	1.00	39.94
AŢOM	1457		MET	490	6.939	19.102	27.522	1.00	41.50
ATOM	1458	CB	MET	490	8.208	19.953	27.394	1.00	39.15
ATOM	1459	CG	MET	490	9.495	19.169	27.608	1.00	41.69
ATOM	1460	SD	MET	490	10.978	20.106	27.161	1.00	35.76
ATOM	1461	CE	MET	490	12.178	18.775	27.056	1.00	39.22
ATOM	1462	С	MET	490	5,718	20.004	27.717	1,00	42.33
ATOM	1463	0	MET	490	5.296	20.258	28.848	1.00	41.09
ATOM	1464	N	ALA	491	5.162	20.498	26.616	1.00	43.15
ATOM ATOM	1465 1466	CA CB	ALA ALA	491 491	3.983 3.622	21.351	26.693	1.00	43.79
MOTA	1467	С	ALA	491 491	2.841	21.879 20.510	25.311 27.251	1.00	43.93 46.16
ATOM	1468		ALA	491	2.073	20.967	28.095	1.00	44.69
ATOM	1469		LYS	492	2.752	19.268	26.783	1.00	46.29
ATOM	1470		LYS	492	1.711	18.351	27.222	1.00	49,90
ATOM	1471		LYS		1,772	17.053	26.411	1.00	50.03
ATOM	1472		LYS	492	1.087		25,062	1.00	
ATOM	1473		LYS	492	-0.002	16.084	24.930	1.00	59.00
ATOM	1474	CE	LYS	492	-0.988	16.453	23.827	1.00	61.85
ATOM	1475	NZ	LYS	492	-1.351	15.281	22.976	1.00	62.89
ATOM	1476	C	LYS	492	1.841	18.025	28.701	1.00	51.15
ATOM	1477		LYS	492	0.845	17.784	29.379	1,00	53.37
ATOM	1478		ALA	493	3.072	18.012	29.199	1.00	50.15
ATOM	1479		ALA	493	3.321	17.706	30.600	1.00	49.17
ATOM	1480		ALA	493	4.777	17.314	30.794	1.00	50.39
ATOM	1481		ALA	493	2.971	18.885	31.501	1.00	49.36
ATOM	1482		ALA	493	3.089	18.799	32.723	1.00	51.57
ATOM	1483		GLY	494	2.554	19.989	30.893	1.00	48.61
ATOM	1484		GLY	494	2.185	21.159	31.671	1.00	46.92
ATOM	1485		GLY	494	3.322	22.107	32.006	1.00	45.46
ATOM	1486		GLY	494	3.206	22.921	32.919	1,00	43.58
ATOM	1487		LEU	495	4.431	22.009	31.284	1.00	44.81
ATOM	1488		LEÜ	495	5.555	22.899	31.540	1.00	42.34
MOTA	1489		LEU	495	6.847	22.293	30.988	1.00	43.79
ATOM	1490		LEU	495	7.712	21.459	31.936	1.00	40.99
ATOM	1491		LEU	495	7.022	20.156	32.260	1.00	44.70
ATOM	1492		LEU	495	9.072	21.189	31.270	1.00	42.12
ATOM	1493		LEU	495	5.278	24.227	30.847	1.00	42.13
MOTA	1494	O	LEU	495	4.664	24.258	29.778	1.00	42.49

MOTA	1495	N	THR	496	5.718	25.324	31.452	1.00	42.73
atom	1496	CA	THR	496	5.521	26.636	30.845	1.00	43.56
MOTA	1497	CB	THR	496	5.841	27.767	31.829	1.00	46.09
MOTA	1498	OGI	THR	496	7.222	27.688	32.208	1.00	43.92
ATOM	1499	CG2	THR	496	4.965	27.662	33.064	1.00	45.63
ATOM	1500	С	THR	496	6.471	26.764	29.660	1.00	45.54
MOTA	1501	O	THR	496	7.370	25.939	29.488	1.00	43.39
ATOM	1502	N	LEU	497	6.280	27.800	28.849	1.00	45.02
ATOM	1503	CA	LEU	497	~ 7,135	28.020	27.688	1.00	45.12
MOTA	1504	CB	LEU	497	6.710	29.286	26.944	1.00	46.62
ATOM	1505	CG	LEU	497	5.933	29.080	25.640	1.00	50.20
ATOM	1506	CD1	LEU	497	5.886	30.397	24.875	1.00	50.95
ATOM	1507	CD2	LEU	497	6.589	27.990	24.798	1.00	50.91
MOTA	1508	С	LEU	497	8.599	28.135	28.101	1.00	44.94
ATOM	1509	0	LEU	497	9.474	27.516	27.493	1.00	45.03
ATOM	1510	N	GLN	498	8.862	28,927	29.137	1,00	41.14
ATOM	1511	CA	GLN	498	10.221	29.101	29.627	1.00	40.54
ATOM	1512	CB	GLN	498	10.246	30.140	30.743	1.00	43.82
ATOM	1513	CG	GLN	498	11.585	30.270	31.437	1.00	43.37
ATOM	1514	CD	GLN	498	11.539	31.260	32.584	1.00	47.03
ATOM	1515	OE1	GLN	498	10,565	31.308	33.332	1.00	49.18
ATOM	1516	NE2	GLN	498	12.591	32.054	32.727	1.00	45,30
ATOM	1517	С	GLN	498	10.777	27.773	30.145	1.00	39,39
ATOM	1518	Ö	GLN	498	11.923	27.422	29.866	1.00	35.05
ATOM	1519	N	GLN	499	9.965	27.040	30.902	1.00	36.49
ATOM	1520	CA	GLN	499	10.391	25.748	31.434	1.00	36.91
ATOM	1521	СВ	GLN	499	9,314	25.155	32.344	1.00	38.84
ATOM	1522	CG	GLN	499	9.155	25.825	33.703	1.00	41.33
ATOM	1523	CD	GLN	499	8.039	25.187	34.512	1.00	42.74
ATOM	1524	OE1	GLN	499	7.027	24.760	33.955	1.00	45.44
ATOM	1525	NE2	GLN	499	8.222	25.107	35.829	1.00	43.48
ATOM	1526	C	GLN	499	10.655	24.773	30.285	1.00	35.03
ATOM	1527	Ö	GLN	499	11.446	23.832	30.422	1.00	36.59
ATOM	1528	N	GLN	500	9.980	24.994	29.162	1.00	34.14
ATOM	1529	CA	GLN	500	10.136	24.138	27.990	1.00	34.65
MOTA	1530	CB	GLN	500	9.042	24.436	26.958	1.00	33.90
ATOM	1531	CG	GLN	500	7.672	23.872	27.315	1.00	36.62
ATOM	1532	CD	GLN	500	6.558	24.419	26.435	1.00	40.17
ATOM	1533	OE1	GLN	500			25.207		40.22
ATOM	1534	NE2	GLN	500	5.482		27.064	1,00	41.82
ATOM	1535	C	GLN	500	11.511		27.358	1.00	34.96
AŢOM	1536	ō	GLN	500	12.256		27.124	1.00	30.79
ATOM	1537	N	HIS		11.835		27.078	1.00	34.21
ATOM	1538	CA	HIS	501	13.117	25.966	26.480	1.00	37.42
ATOM	1539	СВ	HIS	501	13.195	27.476	26.246	1.00	43.08
ATOM	1540	CG	HIS	501	12.043	28.027	25.468	1.00	51.13
ATOM	1541	CD2	HIS	501	11.534		24.263	1.00	53.05
ATOM	1542	ND1	HIS	501	11.264	29.068	25.926	1.00	54.54
ATOM	1542	CE1	HIS	501	10.325	29.337	25.926	1.00	54.36
ATOM	1543	NE2	HIS	501	10.325	28.508	24.018	1.00	55.19
ATOM	1544	NEZ C	HIS	501	14.255	25.543		1.00	35.19 35.79
ATOM	1545	0	HIS			25.543	27.395 26.945	1.00	36.20
	1546	И	GLN	501	15.271			1.00	33.90
ATOM				502	14.086	25.799	28,685	1.00	
MOTA	1548	CA	GLN	502	15.110	25.438	29.650		32.18
MOTA	1549	CB	GLN	502	14.740	25.977	31.033	1.00	35.84
ATOM	1550	CG	GLN	502		27.498	31.113	1.00	32.66
ATOM	1551	CD	GLN	502	14.420		32.486		36.62
ATOM	1552	OFT	GLN	502	14.102	27.262	33.397	1.00	33.99

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ATOM	1553	NE2	GLN	502	14.462	29,348	32.640	1.00	36.22	~ ·
ATOM	1554		GLN	502	15.340	23.932	29.716	1.00	31.79	
ATOM	1555		GLN	502	16.483	23.479	29.769	1.00	28.00	
ATOM	1556		ARG	503	14.266	23.146	29.705	1,00	30.99	
MOTA	1557	CA	ARG	503	14.436	21.704	29.779	1.00	29.91	
MOTA	1558	CB	ARG	503	13.107	21.011	30.052	1.00	32.79	
ATOM	1559	CG	ARG	503	13.258	19.541	30.400	1.00	30.84	
MOTA	1560	CD	ARG	503	11.930	18.935	30.798	1.00	30.61	
ATOM	1561	NE	ARG	503	12.021	17.490	30.992	1.00	28.50	
ATOM	1562	CZ	ARG	503	12.489	16.908	32.093	1.00	29.00	
ATOM	1563	NH1	ARG	503	12.917	17.640	33.114	1.00	29.85	•
ATOM	1564	NH2 C	ARG	503	12.512	15.583	32.180	1.00	33,73	
ATOM ATOM	1565 1566	0	ARG ARG	503 503	15.051 15.895	21.152 20.259	28.496 28.548	1.00	29.89 29.69	
ATOM	1567	Ŋ	LEU	504	14.624	20.239	20.346	1.00	29.69	
ATOM	1568	CA	LEU	504	15.164	21.223	26.075	1.00	28.90	
ATOM	1569	CB	LEU	504	14.566	22.023	24.916	1.00	27.72	
MOTA	1570	CG	LEU	504	15.327	21.901	23.593	1.00	30.47	
ATOM	1571	CD1	LEU	504	15.252	20.453	23.117	1.00	31.74	
MOTA	1572	CD2	LEU	504	14.742	22.843	22.542	1.00	29.85	
MOTA	1573	C	LEU	504	16.681	21.419	26.089	1.00	29.69	
MOTA	1574	0	LEU	504	17.439	20.536	25.672	1.00	26.38	
MOTA	1575	И	ALA	505	17.114	22.585	26.564	1.00	28.51	
ATOM	1576	CA	ALA	505	18.535	22.899	26.632	1.00	25.98	
MOTA MOTA	1577 1578	CB	ALA ALA	505 505	18.735	24.361	27.039	1.00	29.86	
ATOM ATOM	1578	0	ALA ALA	505 505	19.261 20.340	21.977 21.462	27.604 27.290	1,00	26.67 25.54	
ATOM	1580	N	GLN	506	18.677	21.402	28.784	1.00	23.59	
ATOM	1581	CA	GLN	506	19.299	20.907	29.785	1.00	27.67	
ATOM	1582	CB	GLN	506	18.434	20.796	31.043	1.00	27.75	
ATOM	1583	CĢ	GLN	506	18.414	22.027	31.945	1.00	32.48	
MOTA	1584	CD	GLN	506	17.111	22.116	32.736	1.00	38.40	
MOTA	1585	OE1	GLN	506	16.319	21.167	32.754	1.00	35.97	
MOTA	1586	NE2	GLN	506	16.879	23.257	33.386	1.00	38.07	•
ATOM	1587		GLN	506	19.500	19.509	29.217	1.00	24.53	
MOTA MOTA	1588 1589	O N	GLN LEU	506 507	20.536	18.889 19.017	29.441	1.00	26,42	
ATOM	1589		LEU	507 507	18.505 18.578	17.678	28.484 27.902	1.00	26.78 26.18	
ATOM	1591.		LEU	507	17.225	17.286	27.295	1.00	31.48	
ATOM ·	1592	CG	LEU	507	16.052	16.961	28.231	1,00	32.59	
ATOM	1593	CD1	LEU	507	14.836	16.561	27.389	1.00	33.78	
MOTA	1594	CD2	LEU	507	16,431	15.838	29.174	1.00	30.18	
ATOM	1595	С	LEU	507	19.652	17.583	26.819	1.00	26.03	
MOTA	1596	0	LEU	507	20.421	16.621	26.771	1.00	27.28	
MOTA	1597	N	LEU	508	19.713	18.583	25.950	1.00	24.31	
ATOM	1598	CA	LEU	508	20.690	18.557	24.863	1.00	23.68	
ATOM	1599	CB	LEU	508	20.339	19.629	23.828	1,00	23.91	
ATOM	1600	CG	LEU	508	19.004	19.436	23.102	1.00	24.68	
ATOM ATOM	1601 1602	CD1 CD2	LEU LEU	508 508	18.905 18.903	20.416 17.994	21.945 22.580	1.00	25.11 27.53	
ATOM	1603	CD2	LEU	508 508	22.127	18.727	22.580 25.341	1.00	27.53	
ATOM	1604	0	LEU	508	23.062	18.200	24.736	1.00	21.36	
ATOM		N	LEU	509	22.302	19.451	26.441	1.00	23.86	
ATOM		CA	LEU	509	23.637	19.661	26.991	1.00	26.28	
MOTA	1607	CB	LEU	509	23.598	20.735	28.095	1.00	28.08	
ATOM	1608	CG	LEU	509	23.578	22.214		1.00	33.98	
ATOM		CD1	LEU	509	23.529	23.114	28.921	1.00	35.23	
MOTA	1610	CD2	LEU	509	24.818	22.525	26.856	1.00	30.48	

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MOTA	1611	C	LEU	509	24.154	18.327	27.540	1.00	26.08
ATOM	1612	0	LEU	509	25.354	18.068	27.549	1.00	23.92
ATOM	1613	N	ILE	510	23.254	17.462	27.993	1.00	24.60
ATOM	1614	CA	ILE	510	23.712	16.172	28.496	1.00	25.12
MOŢA	1615	CB	ILE	510	22.568	15.368	29.161	1.00	28.51
ATOM	1616	CG2	ILE	510	23.051	13.965	29,506	1.00	31.67
atom	1617	CG1	ILE	510	22.141	16.060	30.459	1.00	31.18
ATOM	1618	CD1	ILE	510	20.712	15.749	30.882	1.00	37.16
ATOM	1619	C	ILE	510	24.337	15.351	27.364	1,00	23.86
atom	1620	0	ILE	510	25.225	14.534	27.600	1:00	24.14
ATOM	1621	N	LEU	511	23.889	15,586	26.133	1.00	25.10
ATOM	1622	CA	LEU	511	24.420	14.862	24.977	1,00	25.63
ATOM	1623	CB	LEU	511	23.628	15.225	23.714	1.00	23.89
ATOM	1624	CG	LEU	511	22.152	14.801	23.659	1.00	25,78
ATOM	1625	CD1	LEU	511	21.648	14.920	22.224	1.00	26,55
ATOM	1626	CD2	LEU	511	21.990	13.363	24.146	1.00	26.29
MOTA	1627	C.	LEU	511	25.912	15.152	24.771	1.00	27.10
MOTA	1628	0	LEU	511	26.641	14.332	24.214	1.0Ò	24.98
ATOM	1629	N	SER	512	26.372	16.319	25.213	1.00	24.75
MOTA	1630	CA	SER	512	27.787	16.637	25.076	1.00	23.68
ATOM	1631	CB	SER	512	28.023	18.129	25.358	1.00	26.12
ATOM	1632	OG	SER	512	29.271	18.327	25.986	1.00	37.17
ATOM	1633	C	SER	512	28,594	15.765	26.050	1.00	23,15
ATOM	1634	0	SER	512	29.742	15.383	25.769	1.00	22.15
ATOM	1635	N	AHIS	513	27.993	15.456	27.192	0.50	21.53
MOTA	1636	N	BHIS	513	28.008	15.453	27,202	0.50	20.99
MOTA	1637	CA	AHIS	513	28.645	14.624	28.196	0.50	21.79
ATOM	1638	CA	BHIS	513	28.696	14.607	28.174	0.50	20.94
ATOM	1639	CB	AHIS	513	27.920	14.776	29.536	0.50	23.59
MOTA	1640	CB	BHIS	513	27.991	14.636	29.536	0.50	21.59
ATOM	1641	ĊĢ	AHIS	513	28,145	16.109	30.179	0.50	27.34
ATOM	1642	CG	BHIS	513	28.800	14.032	30.642	0.50	23.94
MOTA	1643	CD2	ahis	513	29.223	16.616	30.824	0.50	27.56
ATOM	1644	CD2	BHIS	513	30.095	14.211	31.001	0.50	24.22
ATOM	1645	ND1	AHIS	513	27.204	17.117	30.160	0.50	30.62
ATOM	1646	ND1	BHIS	513	28.285	13.105	31.523	0.50	27.00
ATOM	1647	CE1	AHIS	513	27.693	18.185	30.763	0.50	26.32
ATOM	1648		BHIS		29.225	12.740			24,40
ATOM	1649	NE2	AHIS	513	28.916	17,908	31.176	0.50	28.30
ATOM	1650	NE2	BHIS	513	30.334	13.396	32.081	0.50	25.54
ATOM	1651	C	AHIS	513	28.666	13.164	27.738	0.50	19.81
ATOM	1652	C	BHIS	513	28.720	13.171	27.652	0.50	19.42
ATOM	1653	0	AHIS	513	29.601	12.426	28.026	0.50	22.45
MOTA	1654	0	BHIS	513	29.707	12.457	27.809	0.50	22.62
ATOM	1655	N	ILE	514	27.633	12.753	27.015	1.00	20.76
ATOM	1656	CA	ILE	514	27.572	11.396	26.492	1.00	20.94
ATOM	1657	СВ	ILE	514	26.154	11.086	25.953	1.00	27.76
ATOM	1658	CG2	ILE.	514	26.169	9.800	25.123	1.00	28.26
ATOM	1659		ILE	514	25.185	10.965	27.139	1.00	27.91
ATOM	1660		ILE	514	23.752	10.649	26.753	1.00	34.31
ATOM	1661	C	ILE	514	28.641	11.256	25.398	1.00	20.66
ATOM	1662	0	ILE	514	29.298	10.226	25.285	1,00	22.21
ATOM	1663	N	ARG	515	28.825	12.294	24.589	1,00	26.48
ATOM	1664	CA	ARG	515	29.861	12.243	23.554	1.00	21.98
ATOM	1665	CB	ARG	515	29.861	13.535	22.726	1.00	23.11
ATOM ·	1666	CG	ARG	515	31.003	13.611	21.737	1.00	25.76
ATOM	1667	CD	ARG	515	30.664	12.818	20.491	1,00	28.55
ATOM	1668	NE	ARG	515	29.580	13.482	19.788	1.00	36.24

ATOM	1,669	CZ	arg	515	29.615	13.827	18.508	1.00	38.91	
ATOM	1.670	NH1	ARG	515	30.689	13.566	17.776	1.00	35.37	
ATOM	1671	NH2	ARG	515	28.579	14.459	17.971	1.00	40.27	
MOTA	1672	C	ARG	515	31.221	12.087	24.225	1.00	21.29	•
ATOM	1673	ō	ARG	515	32.068	11.305	23.795	1.00	20.06	
ATOM	1674	N	HIS	516	31.420	12.844	25.293	1.00	23.23	
ATOM	1675	CA	HIS	516	32.675	12.812	26.034	1.00	24.75	
ATOM	1676	CB	HIS	516	32.566	13.794	27.206	1.00	24.03	
ATOM	1677	CG	HIS	516	33.826	13.948	27.990	1.00	31.42	
ATOM	1678	CD2	HIS	516	34.138	13.587	29.257	1.00	35.87	
ATOM	1679	ND1	HIS	516	34.938	14,586	27,489	1.00	33.59	
ATOM	1680	CE1	HIS	516	35.882	14,613	28.411	1.00	35.70	
ATOM	1681	NE2	HIS	516	35.422	14.013	29.495	1.00	33.35	
ATOM	1682	C	HIS	516	32.965	11.390	26.537	1.00	24,.02	
ATOM	1683	0	HIS	516	34.059	10.852	26.362	1.00	23.66	
ATOM	1684	N	MET	517	31.969	10.786	27.168	1.00	20.91	
ATOM	1685	CA	MET	517	32.109	9.436	27.684	1,00	24,21	
ATOM	1686	CB	MET	517	30.837	9.038	28.424	1.00	23,88	
ATOM	1687	CG	MET	517	30,607	9.903	29.652	1.00	26,32	
ATOM	1688	SD	MET	517	29.435	9.222	30.790	1.00	26,67	
ATOM	1689	CE	MET	517	27,914	9.390	29.807	1.00	23.26	
ATOM	1690	C	MET	517	32.399	8.448	26.564	1.00	23.26	
ATOM	1691	0	MET	517	33.213	7.547	26.728	1.00	26.08	
ATOM	1692	N	SER	518	31.736	8.612	25.423	1.00	21.93	
ATOM	1693	CA	SER	518	31.977	7.717	24.301	1.00	23.08	
ATOM	1694 1695	CB	SER	518 518	30.976	8.027 7.336	23.173	1.00	22.02 24.01	
MOTA MOTA	1695	C C	SER SER	518	31.283 33.432	7.862	21.978 23,810	1.00	25.15	
ATOM	1697	ō	SER	518	34.111	6.866	23.532	1.00	22.94	
ATOM	1698	N	ASN	519	33.923	9.097	23.713	1.00	22.42	
ATOM	1699	CA	ASN	519	35.295	9.309	23.260	1.00	21.87	
ATOM	1700	CB	ASN	519	35.605	10.807	23.157	1,00	24.46	
MOTA	1701	CG	ASN	519	34.864	11.469	22.021	1.00	29.02	
ATOM	1702	OD1	ASN	519	34.661	10.864	20,965	1.00	31.93	
ATOM	1703	ND2	asn	519	34.459	12.715	22.224	1.00	28.81	
MOTA	1704	С	ASN	519	36.292	8,643	24.201	1.00	21,46	
ATOM	1705	0	ASN	519	37.251	8.015	23.752	1.00	23.56	
MOTA	1706	N	LYS	520	36.070	8.782	25.504	1.00	23.23	
MOTA	1707	CA	LYS	520	36.964	8.171	26.488	1.00	26.35	
ATOM	1708	CB	LYS	520	36.581	8.592	27.912	1.00	27.53	
ATOM	1709	CG	LYS	520	36.618	10.101	28.174	1,00	33.74	
ATOM.	1710	CD	LYS	520	37.962	10.710	27.811	1.00	42.09	
MOTA	1711	CE	LYS	520	39.047	10.307	28,802	1,00	43.97	
ATOM	1712 1713	NZ C	LYS	520	39.858	11.480 6.644	29.254	1.00 1.00	48.07 27.71	•
ATOM ATOM	1714	0	LYS LYS	520 520	36.899 37.913	5.957	26.376 26.501	1.00	27.71	
ATOM	1715	И	GLY	520 521	37.913	6.117	26.301	1.00	25.02	
ATOM	1716	CA	GLY	521	35.562	4.676	26.003	1.00	26.67	
ATOM	1717	C	GLY	521	36,254	4.168	24.753	1.00	27.06	
ATOM	1718	0	GLY	521	36.924	3.128	24.775	1,00	26.84	
ATOM	1719	N	AMET	522	36.101	4.893	23.650	0.50	25.87	
ATOM	1720	N	BMET	522	36.095	4.908	23.658	0.50	27.62	
ATOM	1721	CA	AMET	522	36.727	4.491	22.401	0.50	27.27	
ATOM	1722	CA	BMET	522.	36.703	4.551	22.384	0.50	30.14	
ATOM	1723	CB	AMET	522	36.267	5.396	21.260	0,50	26.50	
ATOM	1724	CB	BMET	522.	36.252	5.525	21.288	0.50	32.46	
ATOM	1725	CG	AMET	522	34.827	5.162	20.866	0.50	25.05	
ATOM	1726	CG	BMET	522	35.681	4.854	20.045	0.50	35.70	

	MOTA	1727	SD	AMET	522	34.585	3.587	20.020	0.50	27.07
	MOTA	1728	SD	BMET	522	34.197	5.672	19.468	0.50	40.01
	MOTA	1729	CE	AMET	522	33.142	4.017	19.031	0.50	31.29
	MOTA	1730	CE	BMET	522	34.733	6.085	17.745	0.50	42.12
	ATOM	1731	С	AMET	522	38.242	4.532	22.512	0.50	28.99
	ATOM `	1732	C	BMET	522	38.224	4.567	22.483	0.50	30.76
	MOTA	1733	0	AMET	522	38.939	3,743	21.870	0.50	31.65
	ATOM .	1734	0	BMET	522	38.905	3.793	21.807	0.50	32.87
	ATOM	1735	N	GLU	523	38.749	5.452	23.324	1.00	30.85
	ATOM	1736	CA	GLU	523	40.190	5.576	23.513	1.00	34.09
	ATOM	1737	CB	GLU	523	40.515	6.725	24.480	1.00	35.59
	MOTA	1738	CG	GLU	523	40.658	8.079	23,784	1.00	43.35
	MOTA	1739	CD	GLU	523	40.560	9.265	24.739	1.00	46.63
	ATOM	1740	oe1 `	GLU	523	39.832	10.240	24.416	1,00	47.64
	MOTA	1741	OE2	GLU	523	41,212	9.225	25.805	1.00	43.09
	ATOM	1742	C	GLU	523	40.718	4.260	24.061	1.00	34.62
	MOTA	1743	0	GLU	523	41.733	3.747	23.596	1.00	33.87
	MOTA	1744	N	HIS	524	40.021	3.700	25.042	1.00	36.33
	MOTA	1745	CA	HIS	524	40.455	2.427	25.607	1.00	39.20
	ATOM	1746	CB	HIŚ	524	39.678	2.093	26.878	1.00	40.75
1	MOTA	1747	CG	HIS	524	40.061	0.774	27.473	1.00	48.10
	MOTA	1748	CD2	HIS	524	41.192	0.376	28.104	1.00	48.56
	ATOM	1749	NDl	HIS	524	39.247	-0.338	27.412	1.00	48.84
	ATOM	1750	CE1	HIS	524	39.859	-1.362	27.978	1.00	50.19
	ATOM	1751	NE2	HIS	524	41.041	-0.956	28.407	1.00	51.61
	MOTA	1752	C	HIS	524	40.290	1.282	24.613	1.00	38.06
	ATOM	1753	0	HIS	524	41.226	0.521	24.371	1.00	38.18
	MOTA	1754	N	LEU	525	39.101	1.162	24.034	1.00	36.96
	ATOM	1755	CA	LEU	525	38.831	0.093	23.084	1.00	37.40
	ATOM	1756	CB	LEU	525	37.416	0.241	22.514	1.00	35.89
	MOTA	1757	CG	LEU	525	36.268	0.107	23.527	1.00	33.17
	MOTA	1758	CDI	LEU	525	34,936	0,246	22.811	1,00	31.77
	ATOM	1759	CD2	LEU	525	36,343	-1.240	24.238	1.00	35.92
	atom	1760	C	LEU	525	39,859	0.057	21.954	1,00	41.32
	ATOM	1761	0	LEU	525	40.244	-1.015	21.487	1.00	40.76
	ATOM	1762	N	TYR	526	40.314	1.227	21.522	1,00	43.68
	ATOM	1763	CA	TYR	526	41.300	1.297	20.449	1.00	49.00
	MOTA	1764	CB	TYR	526	41.376	2.722	19.890	1.00	51.86
	ATOM	1765		TYR	526	42.305	2.878	18.704	1,00	57.70
	ATOM	1766		TYR	526	41.835	2.718	17.400	1.00	58,93
	ATOM	1767	CE1	TYR	526	42.681	2.875	16.305	1.00	61.21
	ATOM	1768	CD2	TYR	526	43.653	3.200	18,883	1.00	58.58
		1769	CE2	TYR	526	44.510	3.359	17.790	1.00	61.15
	ATOM	1770	CZ	TYR	526	44.016	3.194	16.505	1.00	61.09
	ATOM	1771	OH	TYR	526	44.851	3.343	15.417	1.00	63.79
	ATOM		C	TYR	526	42.671	0.871	20.964	1.00	50.14
	MOTA	1773		TYR	526	43.471	0.303	20.223	1.00	50.73
	ATOM	1774		SER	527	42.930	1.139	22.240	1.00	52.72
	ATOM		CA	SER	527	44.205	0.790	22.857	1.00	55.88
	ATOM	1776	CB	SER	527	44.351	1.516	24.199	1.00	55.00
	ATOM	1777	OG	SER	527	43.752	0.788	25.257	1.00	52.46
	ATOM	1778	C	SER	527	44.365	-0.718	23.054	1.00	60.39
	ATOM	1779		SER	527	45.398	-1.185	23.534	1.00	60.43
	ATOM	1780	N	MET	528	43.335	-1.472	22.678	1.00	63.86
	ATOM	1781	CA	MET	528	43.347	-2.929	22.788	1.00	67.95
	ATOM	1782	CB	MET	528	42.534	-3.381	24.008	1.00	67.85
	ATOM	1783	CG	MET	528	41.237		24.222	1.00	70.10
	ATOM	1784	SD	MET	528	39.895	-3.569	24.983	1.00	71.70

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ATO	M 1785	CE	MET	528	39.231	-4.412	23.554	1.00	72.57	
ATO	M 1786	C	MET	528	42.726	-3.502	21.513	1.00	70.33	
ATO	M 1787	0	MET	528	42.170	-4.602	21.513	1.00	72.43	
ATO	M 1788	N	ĻYS	529	42.834	-2.739	20.428	1.00	71.53	
OTA	M 1789	CA	LYS	529	42.274	-3.122	19.136	1.00	72.00	
ATO	M 1790	CB	LYS	529	42.508	-2.004	18.119	1.00	71.30	
ATO	M 1791	С	LYS	529	42.813	-4.439	18.587	1.00	72.47	
ATO	M 1792	0	LYS	529	43.990	-4.762	18.751	1.00	70.37	
ATO	M 1793	N	ÇYS	530	41.932	-5.191	17.930	1.00	74.48	
OTA	1794	CA	CYS	530	42.279	-6.474	17.325	1.00	76.67	
ATO	1 1795	CB	CYS	530	41.004	-7.245	16.952	1,00	77.23	
ATO	4 1796	SG	ÇYS	530	40.447	-8.491	18.146	1.00	79.38	
ATO	1 1797	C	CYS	530	43.098	-6.220	16.065	1.00	78.08	
. ATO		0	CYS	530	43.241	-5.076	15.623	1.00	78,81	
ATO	1 1799	N	LYS	531	43.637	-7.289	15.487	1.00	78.22	
ATO			LYS	531	44.424	-7.187	14.267	1.00	78.15	
ATO	1801		LYS	531	45.600	-8.182	14.305	1.00	78.33	
ATO			LYS	531	43,508	-7.467	13.067	1.00	77.93	
ATOM			LYS	531	42.549	-6.734	12.839	1.00	78.07	
ATO			asn	532	43.784	-8.539	12.328	1.00	77.80	
MOTA			ASN	532	42,984	-8.902	11.152	1.00	77.30	
ATOM			ASN	532	43.550	-10.166	10.521	1.00	77.55	
ATOM			ASN	532	41.485	-9.082	11.423	1.00	77.34	
ATOM			ASN	532	40.904	-10.123	11.118	1.00	78.13.	
ATON		N	VAL	533	40.859	-8.055	11.988	1.00	76.13	
ATON		CA	LAV	533	39.436	-8.098	12.280	1.00	73.77	
ATOM		CB	VAL	533	39.155	-7.715	13.752	1.00	73.62	
MOTA		CG1	VAL	533	39.690	-6.327	14.047	1.00	73.13	
MOTA		CG2	VAL	533	37.662	-7.782	14.021	1.00	73.14	
MOTA		C	VAL	533	38.685	-7.143	11.352	1.00	72.97	
MOTA MOTA		N O	VAL VAL	533	39.024	-5.960	11.252	1.00	73.91	
ATOM			VAL	534 534	37.671 36.866	-7.666 -6.867	10.666	1.00	70.02	•
ATOM		CB	VAL	534	35.619	-6.867 -7.646	9.747 9.328	1.00	66.70 67.32	
ATOM		C	VAL	534	36.463	-5.541	10.393	1.00	63.87	
ATOM		ō	VAL	534	35.895	-5.519	11.486	1.00	63.55	
ATOM			PRO	535	36.756	-4.415	9.719	1.00	60.92	
ATOM		CD	PRO	535	37.424	-4.354	8.408	1.00	61.01	
ATOM		CA	PRO	535	36.424	-3.077	10.229	1.00	56.83	
ATOM			PRO	535	36,867	-2.135	9.107	1.00	58.70	
ATOM		CG	PRO	535	37.023	-3.009	7.893	1.00	61.55	
ATOM	1826	C	PRO	535	34.944	-2.902	10.571	1.00	52.90	
AŢOM	1827	0	PRO	535	34.067	-3.461	9.908	1.00	52.01	
ATOM	1828	N	LEU	536	34.672	-2.120	11.610	1.00	48.60	
ATOM	1829	CA	LEU	536	33.301	-1.874	12.042	1.00	45.08	
ATOM	1830	CB	LEU	536	33.280	-0.796	13.128	1.00	44.35	
ATOM	1831	CG	LEU	536	32.267	-0.911	14.273	1.00	43.48	
ATOM	1832	CD1	LEU	536	31.919	0.490	14.745	1.00	43.41	
ATOM	1833	CD2	LEU	536	31.022	-1.654	13,835	1.00	39.55	
ATOM	1834	С	LEU	536	32.434	-1.433	10.871	1:00	43.58	
ATOM		0	LEU	536	31.287	-1.862	10.734	1.00	42.14	
ATOM			TYR	537	32.992	-0,575	10.024	1.00	43.02	
ATOM			TYR	537	32.269	-0.066	8.866	1.00	43.34	
ATOM		CB	TYR	537	33.200	0.786	7.997	1.00	44.76	
ATOM			TYR	537	32,483	1.558	6.913	1.00	48.28	
ATOM			TYR	537	32.190	0.964	5.687	1.00	48.46	
ATOM			TYR	537	31.504	1.660	4.693	1.00	52.48	
ATOM	1842	CD2	TYR	537	32.073	2.875	7.123	1.00	49.99	

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MOTA	1843		TYR	537	31.383	3.584	6.135	1.00	53.73	- •	
Mota	1844		TYR	537	31.100	2.967	4.924	1.00	54.01		
ATOM ATOM	1845 1846		TYR	537	30.401	3.648	3.952	1.00	\$5.90	•	
ATOM	1847		TYR TYR	537 537	31,683 30.500	-1.199 -1.191	8.032 7.696	1.00	43.15		
ATOM	1848		ASP	538	32.521	-2.175	7.702	1.00	41.54 44.67		
ATOM	1849		ASP	538	32.097	-3.309	6.893	1.00	45.49		
ATOM	1850		ASP	538	33.322	-4.126	6.479	1.00	51.32		
ATOM	1851	CG	ASP	538	34.361	-3.284	5.748	1.00	56.17		
MOTA	1852		ASP	538	35.436	-3.820	5.396	1.00	57.29		
MOTA	1853		ASP	538	34,097	-2.079	5.526	1.00	59.24		
ATOM	1854		ASP	538	31.071	-4.195	7.587	1.00	43.48		
MOTA MOTA	1855 1856	N O	ASP	538	30.177	-4.738	6.940	1.00	43.95		
ATOM	1857	ÇA	LEU LEU	539 539	31.193 30.244	-4.345 -5.157	8.901 9.654	1.00	41.57		
ATOM	1858	CB	LEU	539	30.244	-5.351	11.092	1.00	39.11 41.88		
ATOM	1859	ÇG	LEU	539	29.770	-6.065	12.044	1.00	46.11		
ATOM	1860	CD1	LEU	539	29.298	-7.379	11.423	1.00	46.99		
ATOM	1861	CD2	LEU	539	30.474	-6.319	13.377	1.00	45.76		
ATOM	1862	C	LEU	539	28.891	-4.451	9.651	1.00	36.38		
ATOM	1863	0	LEU	539	27.849	-5.070	9.436	1,00	35.74		
ATOM	1864	N	LEU	540	28.919	-3.146	9.894	1.00	35.50		
ATOM ATOM	1865 1866	CA CB	LEU LEU	540 540	27.703	-2.336	9.903	1.00	35.59		
ATOM	1867	CG	LEU	540	28.061 27.856	-0.877 -0.252	10.219 11.605	1.00	37.63 40.28		
ATOM	1868	CD1	LEU	540	27.526	-1.299	12.645	1.00	38.55		
ATOM	1869	CD2	LEU	540	29.114	0.506	11.985	1.00	41.04		•
ATOM	1870	C	LEU	540	27.060	-2.415	8.510	1.00	35.50		
MOTA	1871	0	LEU	540	25.846	-2.585	8.371	1.00	33.21		
ATOM	1872	N	LEU	541	27.892	-2.289	7.483	1.00	37.01		
ATOM ATOM	1873 18 7 4	CA	LEU	541	27.418	-2.340	6.101	1.00	38.51		
ATOM	1875	CB CG	LEU LEU	541 541	28.591 28,301	-2.152 -2.112	5.145 3.643	1.00	39.67		
ATOM	1876		LEU	541	27,184	-1.130	3.348	1.00	40.92 42.44		
ATOM	1877	CD2	LEU	541	29.572	-1.716	2.908	1.00	44.18		
ATOM	1878	C	LEU	541	26.723	-3.676	5.833	1.00	39.75		
MOTA	1879	0	LEU	541	25.616	-3.713	5.297	1.00	36.48		
ATOM	1880	N	GLU	542	27.366	-4.770	6,230	1.00	40.88		
MOTA MOTA	1881	CA	GLU	542	26.790	-6.097	6.037	1.00	41.89		
ATOM	1882 1883	CB CG	GLU GLU	542 542	27.719 27.010	-7.170	6.620	1.00	44.11		
ATOM	1884	CD	GLU	542 542	26.434	-8.457 -9.245	7.052 5.887	1.00	50.60 55.80		
ATOM		OE1	GLU	542		-10.117	6.130	1.00	58.81		
ATOM	1886	OE2	GLU	542	26.842	-8.996	4.728	1.00	57.19		
ATOM	1887	C	GLU	542	25.414	-6.195	6.691	1.00	41.58		
ATOM	1888	0	GLU	542	24.472	-6.720	6.102	1.00	42.82		
ATOM	1889	N	MET	543	25.298	-5.686	7.915	1.00	40.09		
ATOM		ÇA	MET	543	24.036	-5.731	8.634	1.00	36.43		
ATOM ATOM	1891 1892	CB	MET	543 543	24.270	-5.424	10.111	1.00	39.95		
ATOM	1892	CG SD	MET MET	543 543	25.137 24.918	-6.459 -6.445	10.808	1.00	41.95		
ATOM	1894	CE CE	MET	543 543	24.918	-6.445 -4.749	12.604 12.964	1.00	47.17 40.88		
ATOM	1895	C ĆB	MET	543	23.324	-4.769	8.072	1.00	35.02		
MOTA	1896	0	MET	543	21.808	-5.073	8.048	1.00	35.31		
MOTA	1897	N	LEU	544	23.457	-3.605	7.629	1.00	32.90		
ATOM	1898	CA	LEU	544	22.559	-2.603	7.074	1.00	36.88		
ATOM	1899	CB	LEU	544	23.225	-1.226	7.111	1.00	34.51		
MOTA	1900	CG	LEU	544	23.268	-0.562	8.490	1.00	31.94		

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MOTA	1901	CD1	LEU	544	24.284	0.564	8.478	1.00	32.27	
MOTA	1902	CD2	LEU	544	21.897	-0.029	8.846	1.00	29.02	
ATOM	1903	C	LEU	544	22.148	-2.941	5.640	1.00	38.94	
MOTA	1904	0	LEU	544	20.971	-2.842	5.294	1.00	39.52	
ATOM	1905	N	ASP	545	23.118	-3.338	4.817	1.00	41.05	
ATOM	1906	CA	ASP	545	22.850	-3.685	3.418	1.00	40.78	
ATOM	1907	CB	ASP	545	24.159	-3.780	2.620	1.00	37.75	
ATOM	1908	CG	ASP	545	23.922	-3.937	1.120	1.00	35.19	•
MOTA	1909	OD1	ASP	545	24.881	-4.265	0.380	1.00	33.48	
ATOM	1910	OD2	ASP	545	22.768	-3.734	0.691	1.00	31.33	
ATOM	1911	¢	ASP	545	22.116	-5.015	3.349	1.00	42.87	
ATOM	1912	ō	ASP	545	22.681	-6.030	2.929	1.00	44.32	
ATOM	1913	N	ALA	546	20.853	-5.009	3.755	1.00	43.49	
ATOM	1914	CA	ALA	546	20.069	-6.229	3.746	1.00	46.96	
ATOM	1915	CB	ALA	546	19.213	-6.305	5.006	1.00	47.82	
ATOM	1916	C	ALA	546	19.193	-6.362	2.508	1.00	49.55	
MOTA	1917	0	ALA	546	18.804	-5.368	1.883	1.00	48.75	
MOTA	1918	N	HIS	547	18.895	-7.606	2.152	1.00	50.98	
ATOM	1919	CA	HIS	547	18.042	-7.884	1.006	1.00	53,77	
MOTA	1920	CB	HIS	547	18.431	-9.223	0.369	1.00	52.69	
ATOM	1921	CG	HIS	547	18.395		1.317	1.00	55.05	
ATOM	1922	CD2	HIS	547	17.477	-10.752	2.242	1.00	53.94	
ATOM	1923	ND1	HIS	547	19.395	-11.329	1.371	1.00	56.23	
ATOM	1924	CE1	HIS	547	19.095	-12,232	2.286	1,00	55.36	
ATOM	1925	NE2	HIS	547	17.936	-11.906	2.830	1.00	57.01	
ATOM	1926	С	HIS	547	16.603	-7.936	1.518	1.00	55.69	
AŢOM	1927	0	HIS	547	16.362	-7.796	2.7.20	1.00	54.30	
ATOM	1928	N	ARG	548	15.653	-8.139	0.612	1.00	57.00	
ATOM	1929	CA	ARG	548	14.245	-8.212	0.987	1.00	60.65	
ATOM	1930	CB	ARG	548	13.432	-7.171	0.208	1.00	62.69	
ATOM	1931	CG	ARG	548	14.272	-6.222	-0.637	1,00	67.54	-
ATOM	1932	CD	ARG	548	13.448	-5.061	-1.171	1.00	71.92	
MOTA	1933	NE	ARG	548	13.702	-3.826	-0,432	1.00	76.95	
ATOM	1934	CZ	ARG	548	14.864	-3,178	-0.429	1.00	79.04	
ATOM	1935	NH1	ARG	548	15.891	-3.644	-1.128	1.00	80.66	
ATOM	1936	NH2	ARG	548	15.001	-2.063	0.278	1.00	80.39	
ATOM	1937	C	ARG	548	13.695	-9.608	0.711	1.00	61.65	
ATOM	1938	0	ARG	548	12.500	-9.781	0.466	1.00	62.05	
ATOM	1939	N	LEU	549		-10.603	0.756	1.00	62,39	
ATOM	1940	CA	LEU	549		-11.985	0.507	1.00	64.02	
ATOM	1941	CB	LEU	549		-12.828	0.195	1.00	62.14	
ATOM ATOM	1942 1943	CG	LEU	549		-12.191	-0.753	1.00	60.76	
ATOM		CD1	LEU	549		-13.074	-0.878	1.00	57.77	
ATOM	1944 1945	CD2 C	LEU	549		-11.972	-2.108	1.00	58.38	
ATOM	1945	0	LEU	549		-12.574	1.702	1.00	66.65	
ATOM	1945		LEU	549 550		-13.600 -11.920	1.577		67.15	
ATOM	1947	N CA	HIS HIS	550 550		-11.920	2.856	1.00	67.72	
ATOM	1949	CB	HIS	550 550			4.065 5.298	1.00	69.93	
ATOM	1950	CG	HIS	550		-12.190 -13.054	5.306	1.00	70.76 71.50	
ATOM	1951	CD2	HIS	550		-13.821	4.341	1.00	71.63	
ATOM	1952	ND1	HIS	550		-13.021	6.411	1.00	71.03	
ATOM	1953	CE1	HIS	550		-13.172		1.00	72.04	
ATOM	1953	NE2	HIS	550 550		-13.972	6.126 4.876	1.00	72.04	
ATOM	1954	C	HIS	550		-14.379	4.878	1.00	71.15	
ATOM	1956	0	HIS	550		-11.684	5.340	1.00	70.66	
ATOM	1957	N	ALA	551		-11.884	3.340	1.00	70.86	
ATOM	1958	CA	ALA	551		-10.851	3.258	1.00	73.58	
-22 017	1730	<u></u>		J J L	2.219	10.037	5.550	1.00	, , , , , ,	

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A'	TOM	1959	CB	ALA	551	9.904	-9.014	2.221	1.00	73.21
A'	MOT	1960	C	ALA	551	8.658	-10.920	3.266	1.00	74.69
	MOT	1961	0	ALA	551	7.684	-10.474	2.621	1,00	76.12
A.	MOT	1962	OXT	ALA	551	8.651	-12.025	3.852	1.00	73.79
HI	etatm	1963	C10	OHT	600	30.581	1.481	29.471	1.00	26.84
HI	MTATS	1964	Ç9	oht	600	30.713	-0.043	29.358	1,60	22.85
H	etatm	1965	C8	OHT	600	31.366	-0.385	28.037	1.00	25.56
H	ETATM	1966	Cll	OHT	600	32.761	0.051	27.916	1.00	27.51
H	ETATM	1967	C16	OHT	600	33.218	0.797	26.797	1.00	28.35
HI	ETATM	1968	C15	OHT	600	34.551	1.237	26.747	1.00	30.39
HI	MTATE	1969	C14	OHT	600	35.443	0.923	27.792	1.00	30.23
H	MTATE	1970	C13	OHT	600	35.004	0.185	28.890	1.00	31.45
HI	MTATE	1971	C12	THO	600	33.666	-0.241	28.955	1.00	27.93
	CTATM	1972	Ç7	OHT	600	30.682	-1,089	27.077	1.00	24.41
HE	TATM	1973	C1	OHT	600	29.211	-1.258	27.052	1.00	24,26
HE	ETATM	1974	C2	OHT	600	28.644	-2,526	26.706	1.00	25.92
HE	MTATE	1975	C3	OHT	600	27.254	-2.668	26.580	1.00	26.32
HE	MTATE	1976	C4	OHT	600	26.438	-1.553	26.813	1.00	29.02
HE	MTAT	1977	04	OHT	600	25,072	-1.605	26.716	1.00	28.42
HE	etatm	1978	C5	OHT	600	26.980	-0.286	27.130	1,00	26.98
	MTATE	1979	C6	OHT	`600	28,362	-0.147	27.231	1.00	25.23
	MTAT	1980	C17	OHT	600	31.370	-1.692	25.942	1.00	26.61
	TATM	1981	C18	OHT	600	32.508	-2.498	26.151	1.00	26.77
	MTAT	1982	C19	OHT	600	33.166	-3.052	25.072	1.00	27.50
	TATM	1983	C20	OHT	600	32.676	-2.794	23.786	1.00	27.50
	TATM	1984	020	OHT	600	33.206	-3.566	22.795	1.00	31.35
	MTAT	1985	C23	OHT	600	33.009	-3.135	21.448	1,00	40.09
	MTAT	1986	C24	OHT	600	34.226	~3.490	20.575	1,00	44.80
	TATM	1987	N24	OHT	600	34.141	-4.901	20.203	1.00	49.00
	TATM	1988	C25	OHT	600	33.375	-5.040	18.933	1.00	51.64
	TATM	1989	C26	ОНТ	600	35.495	-5.459	20,004	1.00	52.06
	TATM	1990	C21	OHT	600	31.540	-2,005	23.558	1.00	27.19
	TATM	1991	•	OHT	600	30.892	-1.450	24.645	1.00	27.92
	TATM TATM	1992 1993	01 01	нон нон	1	20.714	-12.010	23.057	1.00	27.20
	TATM	1994	01		2 3	22.563	-0.070	25.819	1.00	25.77
	TATM	1995	01	нон Нон	3 4	25.183	19.202 5.823	23.149	1.00	42.52
	TATM	1996	01	нон	* 5	35.158 22.116	-9.922	37.390	1.00	33.92
	TATM	1997	01	HOH	6	29.812	6.536	18.914	1.00	30.18
	TATM	1998	01	нон	7	13.362	4.463	19.652 20.376	1.00 1.00	26,11
	TATM	1999	01	нон	8	19.799		20.376	1.00	29.40 28.70
	TATM	2000	01	нон	9	21,205	1.466	23.794	1.00	22.47
	TATM	2001	01	нон	10	21.177	-4.961	29.066	1.00	33.00
	TATM	2002	01	нон	11	18.591	1.863	20.518	1.00	32.59
	TATM	2003	01	нон	12	16.298	21.566	15.992	1.00	33,42
	TATM	2004	01	нон	13	18.611	1.976	24.494	1.00	29.70
	TATM	2005	01	нон	14	38.009	8.910	21.156		39.92
	TATM	2006	01	нон	15	26.549	11.664	18.080	1.00	30.25
	TATM	2007	01.	нон	16	20.282	-4.239	26.512	1.00	32.70
	TATM	2008	01	нон	17	32.858	8.754	20.237	1,00	29.88
	TATM	2009	01	нон	18	8.497	16.136	29.934	1.00	46.80
	TATM	2010	01	нон	19	21.940	19.301	31.632	1.00	35.72
	TATM	2011	01	нон	20	35.153	2.682	14.122	1.00	41.02
	TATM	2012	01	нон	21 .	20.358	-2.268	21.013	1.00	29.43
	TATM	2013		нон	22	35.562	10.036	36.334	1.00	41.37
	TATM	2014	01	нон	23	17.248	18.187	17.571	1.00	33.96
	TATM	2015	01	нон	24	18.445	20.973	12.346	1.00	43.44
	TATM	2016	01	нон	25	12.152	23.054	33.132	1.00	36.04
			-, -							35.54

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HETATM	2017	01	нон	26	13.181	22.222	9.699	1.00	37.03
Hetatm	2018	01	нон	27	19.399	-6.090	12.808	1.00	44.86
HETATM	2019	01	нон	28	37.895	13.599	31.395	1.00	47.26
HETATM	2020	01	нон	29	11.570	6.212	7.962	1.00	51.10
HETATM	2021	01	нон	30	20.172	-2,568	23.445	1.00	51.70
HETATM	2022	01	нон	31	36.402	-5.369	23.729	1.00	58.20
HETATM	2023	01	нон	32	25.127	13.802	19.187	1.00	35.29
HETATM	2024	01	HOH	33	23.181	4.937	38.538	1.00	33.77
HETATM	2025	01	нон	34	20.550	0.421	21.276	1.00	29.12
HETATM	2026	01	нон	35	39.599	13.954	27.312	1.00	44.08
HETATM	2027	01	нон	36	26.445	13.863	21.285	1.00	34.97
HETATM	2028	01	нон	37	13.759	5.079	9.108	1.00	38.54
HETATM	2029	01	нон	38	14.150	24.731	34.529	1.00	49.72
HETATM	2030	01	нон	39	21.060	13.886	-6.319	1.00	59.79
HETATM	2031	01	нон	40	32.215	6.217	8.726	1.00	60.22
HETATM	2032	01	нон	41	35,105	15.704	9.069	1.00	45.15
HETATM	2033	. 01	нон	42	11.427	19.451	9.903	1.00	38.56
HETATM	2034	01	нон	43	19.662	23.472	10.333	1.00	47.71
HETATM	2035	01	нон	44	9.231	3.690	12.337	1.00	45,98
HETATM	2036	01	нон	45	15.313	-6.036	17.192	1.00	39.07
HETATM	2037	01	нон	46	15.517	-3.266	17.907	1.00	37.67
HETATM	2038	01	нон	47	28.784	-16.713	25.163	1,00	55.44
HETATM	2039	01	нон	48	27.868	-10.898	28.271	1.00	31.27
HETATM	2040	01	нон	49	6.955	13.568	28.233	1.00	48.83
HETATM	2041	01	нон	50	22.051	-15.030	28.603	1.00	36.91
HETATM	2042	01	нон	51	7.026	31.002	30.284	1.00	46.73
HETATM	2043	01	нон	52	-1.489	12.385	15.164	1.00	51.17
HETATM	2044	01	нон	53	3.499	6.444	14.452	1.00	50.38
HETATM	2045	01	нон	54	18.655	-2.048	25.518	1,00	52.29
HETATM	2046	01	нон	55	28.188	-15.195	38.996	1.00	55,22.
HETATM	2047	01	нон	56	35.275	-10.556	38.061	1.00	57.39
HETATM	2048	01	нон	57	37.771	-9.103	34.605	1.00	54.17
HETATM	2049	01	нон	58	31.403	-3.039	17.983	1.00	46.80
HETATM	2050	01	нон	59	30.455	-6.352	17.005	1.00	47.05
HETATM	2051	01	нон	60	25.985	8.255	0.416	1.00	43.32
HETATM	2052	01	нон	61	35.679	0.749	10.462	1.00	42.99
HETATM	2053	01	НОН	62	14.741	4.029	33.936	1.00	49.59
HETATM	2054	01	нон	63	16.333	2.592	35.952	1,00	45.13
HETATM	2055	01	нон	64	23.809	7.186	39.798	1.00	45.36
HETATM	2056	01	нон	65	27.012	-1.948	46.995	1.00	63.39
HETATM	2057	01	нон	66	25.956	-6.422	42.144	1.00	44.94
HETATM	2058	01	НОН	67	23.510	-8.414	39.036	1.00	39.06
HETATM	2059	01	нон	68	41.475	0.971	33.110	1.00	55.50
HETATM	2060	01	нон	69	36.519	8.863	38.836	1.00	41.56
HETATM	2061	01	нон	70	30.111	14.823	12.793	1,00	44.58
HETATM	2062	01	нон	71	26.850	-6.092	1.594	1.00	40.15
HETATM	2063	01	нон	72	20.448	-3.169	1.055	1.00	42.50
HETATM	2064	01	нон	73	33.896	3.047	16.172	1.00	46.39
HETATM	2065	01	нон	74	16.884		26.043	1.00	61,50
HETATM	2065	01	нон	75	18.595	0.296	27.866	1.00	47.33
HETATM	2067	01	нон	76	6.166	21.439	19.124	1.00	47.94
HETATM	2068	01	НОН	77	18.484	20.060	16.232	1.00	35.52
HETATM	2068	01	нон	78	1.985	23.265	29.187	1.00	46.42
HETATM	2009	01	ном НОН	78 79	12.729	30.461	29.167	1.00	
END	2010	ΟŢ	AUA	13	12.129	30.40T	21.530	1.00	06.75
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